



**WORLDWIDE TV-FM DX ASSOCIATION
PO BOX 501 - SOMERSVILLE, CT 06072**

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first class mail

Vhf-Uhf DIGEST

The Official Publication of the Worldwide TV-FM DX Association

JANUARY 1999

HAPPY NEW YEAR 1999



WTFDA MAILBOX

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Mike Bugaj

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NEW MEMBER

Blaine Thompson, Ft. Wayne IN

RENEWALS

Well, here we go for another year. My hope this year is that the Y2K problem we all face turns out to be not as bad as some people predict. We will all find out in the next 12 month, so, stay tuned. Meanwhile, the digital TV scene is pressing ahead, and the folks listed here will be able to read about events as they unfold in the VUD along with the rest of us: Matt Sittel, Lenny Goldberg, Marvin Shultz, John Jefferson, Dr. Bruce Elving, George Rogers, John Kosinski, Randall Trapp, Eric Bueneman, Fernando Garcia, Bill Nollman, Ted Liszewski, Steve Branch, George Hamer, Dave Pomeroy, James Rogentine, David Wurl, Giovanni Bellabarba and John Adams. And special congrats go out to Jim Thomas, Bill Nollman and their wives. Both WTFDAers have recently bought new homes.

MAILBOX MERCHANDISE MALL

Randy Miltier, from Ashland OR is looking for a TEKNIKA-6510 UHF/VHF tuner. This looks like the toughest request I've had so far. Someone, somewhere must have one of these sitting in the basement gathering dust, so now is a good time to go down there and dig through the dust and find it. Randy's email address is miltier@jeffnet.org. But if you don't have email you can write me and I'll get the two of you together.

ANTENNA GIVEAWAY A SUCCESS!

Recent mail received from Dennis Smith in Santa Barbara mentions that he was able to get the antennas that Eric Sundius was giving away. Dennis also mentioned that he would consider doing a Bandscan column if he had the proper equipment. Dennis has an unusual request: "One more item. Among the remnants still around since my old Dxing days is an audio cassette tape received from a dxer when all I had was a reel-to-reel recorder. I eventually got a cassette recorder. However, the tape is labeled with everything but his name and by now I don't remember. Hopefully, this note in the Mailbox could identify him? (The tape is marked) "TV-DX 1971-72, WBODSA/7 Great Falls MT; DX received at Box 93 Rt2 Maple Plain MN 55359." Between station IDs, the dxer used background music behind his talking which sounded like portions of Capriccio Espanol by Rimski-Korsakoff (symphony orchestra)". So to recap, if you are the dxer who sent Dennis a cassette tape around 1971-72 that had concert music between station IDs heard at Maple Plain, MN, Dennis would like to hear from you.

HAPPY ANNIVERSARY

January marks the first anniversary of the WTFDA chat on the internet. Since Fernando and I had our first chat on IRC last January, we have had 22 WTFDA'ers use the channel as well as a few TV/FM dxers who are not members. Summer was a busy season on the net as we dxed Es and tropo openings as they happened. We have also had a lot of fun this past year, and expect that it will continue into next year. I realize that, for one reason or another, some WTFDAers can't use mIRC on their systems. One idea I have been hashing around is to possibly have a WTFDA chat occasionally by using one of the free chat rooms on the Delphi web site (www.Delphi.com). I would welcome any comments anyone might have on that..

MORE MONSTER PARABOLICS

Here's another story taken from the internet about one of those giant parabolic dishes. I hope you enjoy reading these as much as I do.

"As I recall, it was a Canadian gentleman named Stan Hoskins who first implemented one of these monster arrays. Stan built the array in North Bay, ON (near where the Dionne quintuplets were born) in the 50s. This "antenna" was to be used to receive American television programming from Buffalo, NY a mere 275+ miles away. The antenna was successful to a point, providing useful signal a majority of the time on channel 2, WGR-TV. I am not sure if it was used for other channels. It was built with high telephone poles over a width of about 550 feet I think. I remember seeing this array when I was in effect replacing it by installing a microwave system to provide the same signals but now received in Toronto, much closer to the Buffalo transmitters. Sruki Switzer was involved with this and the North Bay system and may have some more info on Stan and his inventions. Similar to other large parabolic arrays of this type, the "probe" antenna was a yagi located close to the ground and aimed at the particular spot on the reflector surface required. As I recall we used to use a low gain antenna to find the correct spot on the reflector surface for the desired signal and then replace it with a higher gain (eg narrower beamwidth) antenna. Finding the right spot was a time consuming activity.

I used these parab arrays (as we called them) at Barrie and Orillia, ON (north of Toronto) to receive signals from Buffalo but at a much relaxed 140 miles distance. They worked very well but were forever suffering from broken wires in the reflector that needed splicing. Those of you who used these monsters will no doubt remember how the reflector wires would "sing" in a stiff wind. It added a particularly eerie dimension to working at the headend during a strong wind and rain (thunder)storm. The directivity (read that co-channel rejection) of these antenna systems was simply spectacular, especially at low (ch2-6) channels. Nothing could match them".

WHY DON'T STATIONS GIVE IDS ?

Here is a post from the <rec.radio.broadcasting> newsgroup on the internet. First we have the dxer's question and following that is a reply from someone in the radio business. First, the question:

"The worst problem with dxing is that radio stations call themselves Star-109 or whatever else they want all hour long, and then real quietly, a fast-talking monotone voice slips in between two commercials somewhere in the middle of the hour with "WXYX, Akron". This stealth ID sounds like the station is ashamed of its real call sign. This can be very frustrating when you're dxing, especially on FM. Sorry stations, but the whole reason for a radio station on AM, FM, SW, VHF or anywhere to give a legal ID is so a listener can EASILY identify the station! If the FCC won't fix this problem by requiring IDs to be clear and distinct and run twice an hour like they used to, then maybe Arbitron and the other ratings companies could put a stop to this practice by not allowing any slogans or nicknames when tabulating diaries! I guarantee that would make the stations drop their "Z-Rock" slogans pretty fast and start using their calls every couple of minutes. That would be such a nice change."

"Don't think so. I think you'll find that the purpose of the call sign was so the FCC monitoring sites could identify the station. I really don't think the FCC or its predecessor gave a da*n about listener' ability to identify anything." Regarding Arbitron: "Then, Arbitron would be influencing the media they're supposed to be measuring. It isn't Arbitron's place to tell stations what to program or how to identify themselves. Their responsibility is to accurately measure who listens to what...not to get involved in the station's business. Stations will do whatever it takes to get ratings. Dxers are such a tiny segment of the radio audience that they're irrelevant to the process. By their nature, they're out of the market, so they won't ever be counted in a survey. They'll never buy products from the local retailers. All they do is make up lists of stations they've heard. It's a nice hobby, but has no relevance to what we do in programming."

That's all for January! See you all next month and DON'T FORGET TO WRITE! -Mike

WTFDA SPECIAL REPORT

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1998 FM E-Skip Summary

"better than last year, but mediocre at best"

THE TOP 10 SKIP DAYS OF 1998:

DATE	TOT	#REP	Avg	MUF	HIGH	TV RANK
JUNE 1	508	20	25.40	107.9	103	1
MAY 28	259	12	21.58	111.9	105	-
AUGUST 15	194	9	22.73	107.9	53	-
JUNE 28	190	18	10.55	107.9	36	7
JULY 12	101	9	11.22	107.9	36	-
JULY 31	85	7	12.14	107.9	40	3
JUNE 29	85	12	20.83	107.1	40	2
JUNE 14	70	6	11.67	107.9	41	5
JULY 13	70	8	8.75	107.9	12	8
AUGUST 4	52	8	6.50	106.7	14	-

KEY:
 TOT: total no. of FM loggings
 #REP: number of DXers reporting skip
 AVG: average number of loggings per DXer (tot / rep)
 MUF: maximum useable freq.
 HIGH: the most loggings reported by one DXer for that day

SKIP RESULTS BY MONTH:

KEY:	
TOT: total no. of FM loggings for month	
#DAYS: no. days with FM Es that month	
AVG: average number of loggings per DXer (tot / days)	
AVG MUF: average MUF for month	
RANK: This month/year's ranking compared to the past 18 seasons.	

MONTH	TOT	#DAYS	AVG	AVG MUF	RANK
JANUARY	40	3	13.33	97.90	-
APRIL	46	4	11.50	101.30	4 th
MAY	488	9	54.22	100.88	7 th
JUNE	1081	20	54.05	100.84	10 th
JULY	354	15	23.60	100.34	14 th
AUGUST	323	9	35.89	101.70	5 th
TOTAL '98	2332	60	38.87	101.76	14th

SEASON BREAKDOWN BY MUF

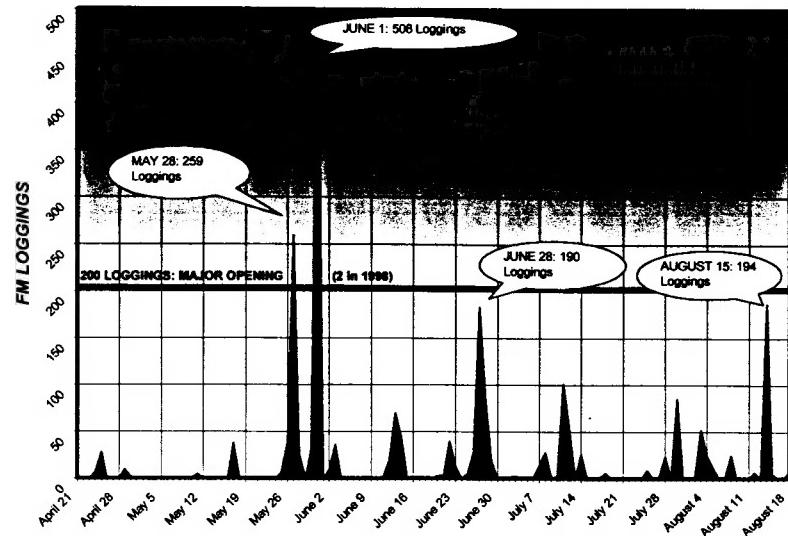
MUF	Openings	% season	MAY	JUNE	JULY	AUGUST
107.9 +	2	3.33%	2	0	0	0
Up to 107.9	12	20.00%	3	4	2	1
Up to 105.1	25	41.67%	4	9	7	2
Up to 100.1	31	51.67%	5	10	7	6
Up to 98.5	32	53.33%	5	10	8	6
Up to 96.1	41	68.33%	7	14	10	7
Up to 92.1	58	96.67%	8	19	15	9
Up to 88.1	60	100.00%	9	20	15	9

KEY:

MUF: Maximum Useable Frequency for FM skip
 OPENINGS: The number of days on which FM skip MUF reached that high in 1998
 % SEASON: The percentage of total FM skip days that saw an MUF this high
 MAY, JUNE, JULY, AUGUST: The number of days during this month on which the MUF got this high

Skip loggings are taken from DX reports in Northern and Southern FM DX columns, up to and including the December 1998 VUD. Rankings are in comparison to the period 1981 – 1998 (the past 18 years).
 NOTE: Many thanks to Roy Barstow, who kindly provided VUDs from the period 1972 – 1979 to add to my records. I have completed going through most of these VUDs, but have not incorporated them into the all time records yet. The updates may appear in another Special Report soon. If you have VUDs in the period 1979 – 1982, before 1972, or August 1978 and August 1979, and are interested in lending them to me, or recording skip days during that period for this study, please contact me!

SPECIAL REPORT – 1998 FM E-SKIP REPORT



E-SKIP IN THE 1990s:

YEAR	TOTAL	#DAYS	AVER	APR	MAY	JUN	JUL	AUG	SEP
1998	2361	60	39.35	46	488	1101	366	330	0
1997	1371	45	30.47	0	66	672	349	284	0
1996	2743	67	40.94	3	489	959	1180	104	0
1995	3746	74	50.62	2	406	891	2249	143	0
1994	8567	84	101.99	227	1454	5158	1574	153	1
1993	2688	55	48.87	0	57	1762	809	46	11
1992	2674	44	48.61	0	840	1523	140	99	0
1991	4003	78	51.32	0	483	1064	1929	356	10
1990	4980	68	73.24	0	2019	1603	1258	74	13

1998's skip summer was a definite improvement over 1997. However, being that '97 was the worst ever in my records, that is not a tremendous feat! As you can see from the statistics above, no month really stood out. The only month that did really well in comparison to what should be expected for that month is August. Many DXers did note the FM going later than the standard. In fact, August 15th was the fourth most productive opening of the season, awfully late for such a distinction. June 1st really stands out this season as the best opening by far. Comments from some DXers seem to confirm that date as their personal best this year. June 1, 1998 will rank fairly high on the all-time skip day list, bringing at least one bright spot to this season. Disappointing, however, were the long gaps in skip activity during June & July, months that normally should be more active. This makes the third consecutive summer in which the activity has not exceeded "mediocre" levels. Maybe we were spoiled by the great seasons of the mid 1990's! Let's hope 1999 is a big improvement. Happy New Year!

Special Report: 1998 TV Es summary

Top openings of 1998:

Date	Total	Reporters	Avg.	MUF	Max	FM Rank
1 June	111	15	7.40	7	24	1
29 June	111	12	9.25	88	36	7
31 July	90	8	11.25	117.9	28	6
26 May	77	12	6.42	88.0	22	
14 June	72	11	6.55	88.0	29	8
4 June	59	9	6.56	117.6	20	
28 June	53	11	4.82	117.2	17	4
13 July	49	12	4.08	88	9	9
13 June	48	13	3.69	144.0	17	
29 May	47	7	6.71	6	16	

Total: Total number of IDd Es loggings made during calendar 1998 and reported in Eastern TV DX and Western TV DX during 1998.

Reporters: Number of DXers reporting at least one Es signal (including unIDs) on this day.

Avg.: Average number of loggings per reporter.

MUF: Highest channel or frequency on which Es signals (not necessarily TV signals) were reported on this day.

Max: Maximum number of IDd TV Es loggings made by one reporter.

FM Rank: Rank of this date (in total number of Es loggings) in Greg Coniglio's FM Es summary.

The best openings this year were comparable to the best of 1996, and much better than last year. Correlation with FM openings was also better than usual. The MUF actually reached channel 8 on two days. (27 June and 15 August - the latter unusually late for high-band skip)

Monthly Breakdown:

Month	Es Loggings	Es Days	Loggings per day
January	98	16	6.13
February	24	5	4.60
March	15	6	2.50
April	26	11	2.55
May	333	22	15.14
June	723	29	24.93
July	454	25	18.16
August	263	21	13.45
September	1	1	1.00
October	6	2	3.00
November	1	1	1.00
Total:	1,958	139	14.09
1997:	1,396	136	10.26
1996:	2,954	178	16.60
1995:	3,391	160	
1994:	2,253	118	
1993:	1,585	102	

Well, 1998 wasn't a good year, but it was a whole lot better than dismal 1997. No month was totally skip-free (I didn't have any December openings in my database) but September and November came dangerously close. On the other hand, the late-winter totals in January, February, and March were quite good. August was also the best in years, supporting the theories of some that the Es season is getting later and maybe "flattening out".

1998 TV Es Summary, continued:

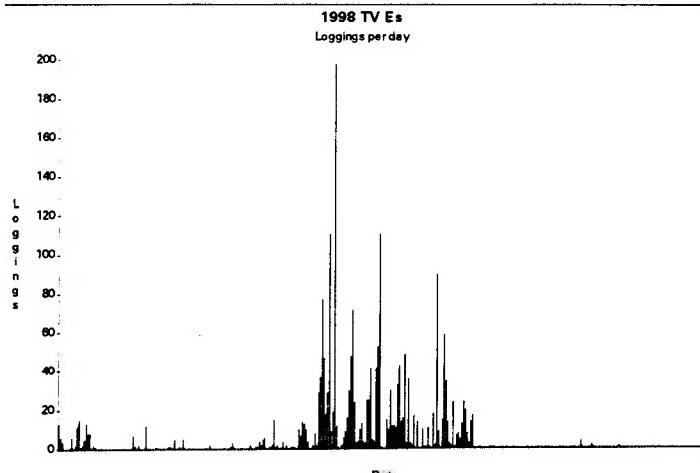
Pests:			
WESH	39	WEDU	28
WPBT & KGAN	36	WBAY & WBRZ	26
WCBD	32	WDTN, WSB, KENW, & KTVK	22
WJBK & KNAZ	31	WSJK, WUND, KOTA	21
KWGN	29	KXMA, KGFE, & KPRC	20

By channel:

Channel 2	WESH-FL	39
Channel 3	WEDU-FL	28
Channel 4	WUNC-NC	16
Channel 5	WRAL-NC	13
Channel 6	KRMA-CO	7

No surprises here, except maybe the number of ties. (I gave up trying to find enough room to fit all the channel numbers in the table.. Just rest assured that all stations listed in the first table are on channel 2 except WEDU, KENW, KTVK, and KOTA.) I did note that new station WBKP (5) was reported five times. This station is well situated for many DXers; if you see WJMN (3) or WLUC (6), or the Duluth or Thunder Bay stations, be sure to check for this one.

To some degree, this year's pests table (and for that matter, last year's) reflects how one active DXer, in this case Danny Oglethorpe, can warp the tables. The first year I compiled a pests list, before Danny joined the WTFDA, no station northeast of Paducah made the list. This year, Danny and Pat Dyer are responsible for the vast majority of the loggings of WJBK, WBAY, and WDTN.



Here we have it - 1998 was a vast improvement over 1997, though we still have a way to go to catch up to the mid-1980s. Here's hoping everyone had a great Christmas, and enough time to hang out with the family between all the skip openings.

73 Doug

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FMNEWS

JANUARY 1999

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KEY TO ABBREVIATIONS:
 &: satellite programming
 AF: New frequency allocation accepted for filing for a new FM license
 AFA: American Family Association
 CC: call letter change
 CL: city of license change
 CX: a construction permit has been canceled
 C1,C2,etc: a change in status to that FM license class
 DA: directional antenna
 DE: station has been deleted
 FC: format change
 GA: granted amendment to the table of FM allocations
 GE: granted extension of construction permit



UNITED STATES

ALABAMA:

Cullman: WRRS 101.1 CC (ex WFMH), FC to contemporary Christian (Birmingham)
 Eufaula: WULA 92.7 CX CP for XC (to 31-54-30 / 85-09-51)
 Holly Pond: WFMH 95.5 CC (ex WXXR) FC to ABC real country (&) (Cullman)
 Montgomery: WHHY 101.9 FC to CHR "Y 102" CC (ex WJCC)

ALASKA:

Houston: KADX 94.7 NO-GX (4th)
 Juneau: KAMT 100.7 NO-GE (4th)
 Juneau: KAKZ 102.7 NO-GE (4th)
 Juneau: KAKZ 102.7 NO-GE (4th)
 Valdez: KVAK 93.3 PG 1200w, -1958 ft.



ARIZONA:

Chino Vly: KPBZ 103.9 CC (ex KAKP)
 Clifton: KWRQ 102.1 FC to hot AC "Sunny" (&)
 Glendale: KZPZ 103.5 CC (ex KWCY), FC to regional Mexican (Phoenix)
 Oro Valley: KOAZ 97.5 PG> 6 kW, 151 ft, XG: 32-19-45 / 111-03-40
 Payson: KESP 101.1 PG< 82 kW, 1069 ft.
 Red Mesa: KRMN 89.7 NW, ethnic & variety
 St. Johns: KWKM 95.7 NO-GE

ARKANSAS:

Atkins: KRRD 99.3 CC (ex KBHY)
 Gurdon: KYXK 92.7 OSA for 106.9, C3, 17.5 kW, 302 ft.
 Harrisburg: KKEY 95.9 CC (ex KBGQ), NW, oldies (expected on the air in Feb. 1999)
 Hot Springs: KSBC 90.1 PC< 7.8 kW, 443 ft, C3, XC: 34-37-31 / 93-00-37

Pangburn: *NS 99.1 AF
 Piggott: KBOA 105.5 FC to adult stds (&)

CALIFORNIA:

Arnold: KBYN 95.9 PC 980w, 807ft, XC: 38-22-42 / 120-11-36
 California City: KCEL 106.9 NO-RE
 Felton: KHIP 93.7 NW, modern AC // KCDU
 Johannesburg: KRAJ 100.9 CC (ex KBHM)
 Kerman: KKPW 94.3 CC (ex KTA) "Power 94 The Party", PG> 6 kW
 Lompoc: KAKV 106.7 LC
 Long Beach: KBUE 105.5 PC> 3 kW, 466 ft.
 Long Beach: KLON 88.1 PC> 35 kW, DA, B
 Merced: *NS 94.1 6 kW, 328 ft.
 Modesto: KEJC 93.9 NW, country

FM NEWS PAGE 2

California:

Mt.Shasta: KMJC 107.9 FC to adult alternative
 Newberry Sps: KAWU 103.7 PG 6 kW, 282 ft, XG: 34-53-07 / 116-53-45
 Oakdale: KHOP 95.1 adds Bob & Tom
 Palm Springs: KPLM 106.1 inc. to 397 ft.
 San Rafael: KJQI 100.7 FC to ad. stds "Joy"
 Santa Ana: KWIZ 96.7 PC> 6 kW, 203 ft, DA

COLORADO:

Canon City: KSTY 103.9 QG to 104.5 - 6 kW, 46 ft, XG: 38-18-54 / 105-12-40

Evergreen: KPKX 96.5 adds Howard Stern
 Glenwood Sps: KKCH 92.7 inc. to 2499 ft.

Hayden: *NS 89.7 AF

Holyoke: *NS 92.3 100 kW, 558 ft.

Ignacio: KUTE 90.1 NW, info, variety, and Native American programming

Julesburg: *NS 96.5 100 kW, 558 ft.

Sterling: KKNG 104.7 FC to WW1 country (&)

DELAWARE:

Lewes: WXJN 105.9 adds JRN country overnights (&) (otherwise // WICO)

FLORIDA:

Coral Cove: WYNF 107.9 PG> 47 kW, 508 ft XG: 27-09-03 / 82-27-51

Coral Gables: WHQT 105.1 XG: 25-58-03 / 80-12-34

Cross City: WKZY 106.9 CC (ex WDWF)

Crystal River: WAQV 90.9 NW, cont. Christian // WHIJ

Holiday: WSUN 97.1 CC (ex WLVU)

Homestead: WRGP 88.1 NO-RX (3rd)

Jensen Bch: WMBX 102.3 PC> 10 kW, C1

LaBelle: *NS 88.3 3 kW, 161 ft, DA

Marianna: WTYS 94.1 CC (ex WBNF), FC to southern Gospel

Melbourne: WCVD 95.1CX CP for 253 ft.

Niceville: WNCV 100.3 PC> 3.5 kW, 440 ft, XC: 30-24-50 / 86-37-40

Panama City: WJTF 89.9 NO-GE

Sebring: W214BA 90.7 NS-27w: WJIS 88.1

Sebring: WWLL 105.7 CC (ex WYMR), FC to classic rock (adds John Boy & Billy) "Wheels"

Union Park: WPOZ 88.3 CC (ex WEAZ) "Positive Hits"

GEORGIA:

Alma: WAQJ 104.3 PG> 4.5 kW, 371 ft.

Clayton: WRBN 104.1 PC> 190w, 1296 ft.

Fayetteville: WHTA 97.5 NC to 6.6 kW, 636 ft, RE (3rd)

Jasper: WBCS 88.3 CC (NS)

Jesup: WIFO 105.5 NC to 25 kW, 308 ft, DA, C3, GE

Perry: WPGA 100.9 PC> 3.3 kW, 446 ft.

Reidsville: WRBX 104.1 PG< 4.9 kW, 361 ft.

Ringgold: WMPZ 93.7 PG> 4.9 kW, 302 ft.

Rome: WKCX 97.7 PC> 4.3 kW, DA

Roswell: WAMJ 107.5 OSA to C3, 25 kW, 328 ft, XC: 33-55-54 / 84-20-43

Washington: WXKT 100.1 CC (ex WLOV)

JANUARY 1999

HAWAII:

Kailua: K211DO 90.1 NS-16w(v): KAWZ-ID
 Lihue-Kauai: KAWV 98.1 NO-RX

IDAHO:

Chubbuck: KLLP 98.5 CC (ex KRSS), FC to soft AC "K-Lite" (Pocatello)

Island Park: KWYS 102.9 LC, CC (ex KEZQ), FC to Radio 1 country (&) "Yellowstone Country"
 Shelley: KBJX 107.9 CC (NS)

ILLINOIS:

Arlington Hts: WCBR 92.7 FC to CHR "Kiss FM"
 Bethalto: WFUN 95.5 to carry St.Louis Ambush soccer

Cairo: WBEL 88.5 CC (NS)

Centralia: WRXX 95.3 FC to WW1 70's oldies (&)
 Chicago: WGCI 107.5 PG< 3.7 kW, 1548 ft, XG: 41-52-44 / 87-38-08

Clifton: *** 107.3 PA: add class A
 Colchester: *NS 104.1 6 kW, 328 ft.

Decatur: WYDS 93.1 SG "93.1 The Party"
 Freeport: WNIE 89.1 NO-GE (2nd)

Geneseo: WAXR 88.1 PG> 34 kW, (v), 328', C2
 Golconda: WDXR 94.3 SG "The Cool Fox"

Henry: WRVY 100.5 NW, classic hits
 Kankakee: WBRO 92.7 FC to CHR "Kiss FM" (// Arlington Heights) (Chicago)

Kankakee: WAWF 88.3 NO-GX

LaSalle: WNIW 91.3 NO-GE (2nd)
 Lincolnshire: *NS 88.1 150w, 49 ft, DA

Marion: WDDO 107.3 adds Nashville Nights

Mt.Sterling: WLRT 106.7 CC (ex WBRJ)

Mt.Vernon: WAPO 90.5 PC> 500w, 208 ft.

Nashville: WNSV 104.7 PG> 6 kW

Oglesby: WALC 102.1 adds ABC country (&)
 Oregon: WOXM 106.1 NO-RE (5th)

Ottawa: WWGN 89.9 FC to AFA c. Christian (&)
 Pana: WXXO 100.9 adds Branson cntry (&)

Pekin: WCIC 91.5 PC> 47 kW, 505 ft, DA, XC: 40-33-28 / 89-34-04
 Pickneyville: WCCZ 104.3 NO-RE (2nd)
 Ramsey: WTRH 93.3 CC (ex WJLY) "The Road Home"

Ramsey: WJLY 88.3 CC (NS)

Rantoul: *** 103.3 PA: add class A
 Rockton: WRWC 103.1 adds JRN soft AC (&)

Shelbyville: WEJT 105.1 adds Delilah (Decatur)

Sterling: WNIQ 91.5 NW, info, jazz, classical

INDIANA:

Greensburg: WAUZ 89.1 PG< 800w(v), 518 ft.
 Hartford City: *NS 88.1 NO-RE
 South Bend: WNDV 92.9 CC (ex WNDU)
 Veedersburg: WKLO 92.9 NO-RE (4th)



FM NEWS PAGE 3**IOWA:**

Ankeny: KYSY 106.3 PC> 18 kW, C3
 Dubuque: KXGE 102.3 adds Bob & Tom
 Keokuk: KRNQ 96.3 NO-GE (5th)
 Keokuk: KOKX 95.3 NC to 100 kW, 794 ft, C1,
 GX (3rd)
 Oskaloosa: *NS 90.5 AF
 Ottumwa: KOTM 97.7 NC to 18.5 kW, 380 ft, C3,
 XC, GX
 Sagleville: KIYX 106.1 LC
 Sibley: *** 104.3 PA: add class A
 Sioux Rapids: *** 98.3 PA: add class A

KANSAS:

Arkansas City: KLPQ 102.5 NO-RX (2nd)
 Cawker City: KZDY 96.3 NW, classic rock (&)
 Colby: KWGB 97.9 NW, CD country (&)
 Columbus: KJML 105.3 PC> 12.5 kW, 289', C3
 El Dorado: KBTL 88.1 NW, variety
 Emporia: *NS 89.7 AF (BBN)
 Humboldt: KINZ 94.3 NW, classic hits "Z 94.3"
 Hutchinson: KSKU 97.1 NW, CHR, CC (ex KLSI)
 Lyons: KXKU 106.1 CC (ex KSKU), FC to
 country "Kix" (Hutchinson)
 Medicine Lodge: KSNS 91.5 NO-RE
 Ottawa: KRBW 90.5 PC> 430 w.
 Topeka: K209CR 89.7 NS-99w(v): WPCS-FL
 Wichita: KKRD 107.3 increase to 879 ft., XG: 37-
 46-25 / 97-30-54
 Wichita: KEYN 103.7 increase to 879 ft., XG: 37-
 46-25 / 97-30-54
 Winfield: KAZY 95.9 FC to classic hits

**KENTUCKY:**

Beaver Dam: WKLX 100.7 NO-GE (4th)
 Carlisle: WSTL 92.1 CC (ex WVCM) "Star 92"
 Clinton: WCBF 102.1 SG "The Cool Fox"
 Hodgenville: WKMO 106.3 adds CD Country (&)
 Keavy: WVCT 91.5 inc. to 380 feet., XG: 86-59-
 01 / 84-08-01
 Paducah: WDDJ 96.9 SG "Electric 96.9"
 Reeland: WZZL 106.7 adds Bob & Tom
 Saylersville: WRLV 97.3 adds Young & Elder

LOUISIANA:

Alexandria: KOUZ 89.9 LC
 Blanchard: KRVQ 102.1 LC
 DeRidder: KEAZ 101.7 PA: to 97.9 - A
 LaPlace: WCKW 92.3 adds Bob & Tom
 Many: KAVK 89.7 NW, AFA cont. Christian
 (&)
 New Orleans: WRNO 99.5 FC to classic rock

MAINE:

Auburn: WMWX 99.9 PC< 28.5 kW, 643 ft.
 Fairfield: WCTB 93.5 FC to all Christmas music,
 should return to soft AC format
 Freeport: WMSJ 89.3 PG> 7.5 kW (v)
 Portland: WBLM 102.9 dec. to 492 ft.
 XC: 43-45-33 / 70-19-15

JANUARY 1999**Maine:**

Presque Isle: WQHR 96.1 decr. To 1279', XG: 46-
 32-51 / 67-48-35
 Thomaston: WBQX 106.9 CC (ex WAVX) "W-Bach"
 Yarmouth: WYAR 88.3 NO-RE, LC

MARYLAND:

Cambridge: WICO 94.3 adds JRN country overnite

MASSACHUSETTS:

Bedford: *NS 88.1 AF

MICHIGAN:

Baraga: WBUM 104.3 NW, religion (VCY)
 Battle Creek: WKFR 103.3 dec. to 482'
 XC: 42-21-20 / 85-20-28

Birmingham: WCSX 94.7 PC< 13.5 kW, 951 ft.

Bunker: *** 106.3 GA: add class A

Powers: *** 100.3 XA: add class A

MINNESOTA:

Alexandria: *NS 89.5 7.2 kW, 321 ft.
 Austin: *NS 90.1 AF (Minn. Public Radio)
 Bemidji: KBHP 101.1 XG: 47-22-12 / 94-52-54
 Hutchinson: KKJR 107.1 FC to Radio 1 hot AC (&)
 Moose Lake: KBFH 107.1 NO-GE (3rd)
 Park Rapids: KDKH 97.5 adds JRN standards (&) and
 Bruce Williams from 6 - 9 p.m.
 Princeton: KLCI 106.1 PA: to Elk River, MN (C2)

Rochester: KMSE 88.7 LC
 St.Louis Park: WXPT 104.1 CC (ex KMJZ) "Point"

MISSISSIPPI:

Corinth: WXRZ 94.3 OSA to C3, 25 kW, 328 ft,
 XG: 34-48-36 / 88-34-45

Kosciusko: WQJQ 105.1 CC (ex WBKJ) "Q105"

McComb: WAQL 90.5 LC

Tunica: WMPS 96.1 FC to 80's modern AC

MISSOURI:

Campbell: KFEB 107.5 LC
 Cuba: KGNN 90.3 PC< 6.3 kW, 325 ft.
 Festus: KTBJ 89.3 PG< 500w, 272 ft, DA, XG:
 38-13-56 / 90-23-51
 Florissant: KXOK 97.1 SG "97 FM The Rock"
 Jefferson City: KJLU 88.9 SG "Smooth Jazz 88.9"
 Joplin: KOBC 90.7 PC> 60 kW, 495', DA, C1
 Knob Noster: KCVQ 89.7 dismissed extension of
 time as unnecessary

LaMonte: KPOW 97.1 LC
 Lexington: KNRX 107.3 drops Mancow (KC)

Linn: *** 103.1 GA: add class A

Marble Hill: KBGJ 97.3 NO-GE

Moberly: KBKC 90.1 250w, 256', AFA CC (NS)
 Neosho: KBTN 99.7 PC> 16.5 kW, 403 ft, C3,
 XC: 36-54-33 / 94-27-40

Shell Knob: KQMO 97.7 PG 2.1 kW, 558 ft.

Tarkio: KRSS 93.5 CC (ex KTRX) "Cross FM"
 Warrensburg: KCMW 90.9 PC< 97 kW, 443 ft.

Whitehall: *** 102.7 GA: add class A

MONTANA:

Big Sky: KBFN 104.5 NW, hot AC "Fun 104.5"
 Billings: KCMT 96.3 LC
 Cut Bank: *NS 102.7 NO-GX
 Ennis: KBJY 98.7 CC (NS), PG 13 kW, 981 ft,
 C2, XG: 45-16-46 / 111-52-49
 Shelby: KLHK 97.9 CC (NS)

FM NEWS PAGE 4**Montana:**

W.Yellowstone: KEZQ 92.9 QC from 96.5 now 46
 kW, 2733 ft, XC: 44-33-11 / 111-26-32, CC (ex
 KWWF), FC to soft AC "Easy", now class C

NEBRASKA:

Hubbard: KAYA 91.3 PC> 5.1 kW
 Wilber: KFLV 89.9 4.8 kW, 331 ft., CC (NS)

NEVADA:

Sun Valley: KXXX 93.7 NO-GE (2nd)

**NEW HAMPSHIRE:**

Concord: WVNH 91.1 NO-RE (3rd)
 Mt.Washington: WHOM 94.9 inc. to 3775 ft.
 Peterborough: WNHQ 92.1 PG< 170w, 1387 ft, XG:
 42-51-41 / 71-52-45

NEW JERSEY:

Cape May: WWCH 89.1 NO-RE
 Collingswood: W246AQ 97.1 NS-10w: WXHL-DE
 Manahawkin: WJZR 100.1 FC to country "Jersey
 Shore Country"

Millville: WBSS 97.3 goes ND

Ocean City: WTKU 98.3 PC> 6 kW, DA

Woodbine: *NS 89.9 300w, 92 ft.

Zarepath: WAWZ 99.1 PG< 19.5 kW, 790 ft, DA,
 XG: 40-36-40 / 74-34-14

NEW MEXICO:

Albuquerque: KROS 101.3 CC (ex KEZP) "K-Rock"
 Angel Fire: KKIT 99.1 FC to Radio 1 country (&)
 Cloudcroft: KTMN 97.9 CC (NS)
 Clovis: KAQF 91.1 PC> 1350w
 Eunice: KYRK 100.9 PC> 50 kW, C2
 Jal: KPZA 107.1 NW, La Buena Mex. (&),
 QC from 103.7

Raton: *NS 96.5 650w, 968 ft.

Taos: KHYF 99.9 NO-GE (3rd)

White Rock: KSFQ 101.1 OSA to C3, 6 kW, 1863 ft.,
 XG: 35-53-09 / 106-23-16

NEW YORK:

Canandaigua: WISY 102.3 FC to soft AC (Roch.)
 Canton: WXQZ 101.5 FC to country // WNCQ
 Catskill: WCTV 98.5 XG: 42-12-03 / 74-06-48
 Fredonia: WCQA 96.5 FC to CD country "Bull" (&)
 Hornell: WSQA 88.7 NO-RE
 Irondequoit: WYSY 106.7 FC to dance // WMAX
 Jewett: WAKX 97.9 PA: to A - Windham, NY
 Mechanicsville: WXLE 104.5 FC to hot AC "Magic"
 New York: WBIX 105.1 FC to rhythmic oldies
 Pt.Henry: WXNT 92.1 CC (ex WMNM)
 Pt.Jervis: WTSX 96.7 PG< 890w, 610 ft.
 XG: 41-22-23 / 74-43-49

Saratoga Sp: WSSK 89.7 NW, c.Christian //
 WFGB

Syracuse: WNTQ 93.1 XC: 42-56-48 / 76-01-28

Syracuse: WRVD 90.3 NO-RX (3rd)

Watertown: WCIZ 93.3 QC from 93.5, PC> 6 kW,
 XG: 43-57-23 / 75-50-45

JANUARY 1999**NORTH CAROLINA:**

Elizabeth City: WKJX 96.7 FC to ABC urban gold
 "Kiss 97"

Jefferson: WASQ 106.1 NO-RE (5th)

Spindale: WNCW 88.7 decreases to 3027 ft, DA,
 XC: 35-44-06 / 82-17-11

Tabor City: WYNA 104.9 PC> 25 kW, 298 ft, DA, XC:
 33-49-19 / 78-46-18, CL: Calabash, NC

Wanchese: WOBR 95.3 FC to rock (Outer Banks)

Wilmington: WBID 89.7 CC (NS)

NORTH DAKOTA:

Beulah: KAVG 97.9 NO-GE

Dickinson: KRRB 92.1 PC> 10.5 kW, 492', C3

Hettinger: *NS 93.5 NO-GE

OHIO:

Athens: WJKW 95.9 NW, cont. Christian (&)
 (The Word in Music net from 6pm to 6am)

Cincinnati: WVMX 94.1 PC< 10 kW, 866 ft,
 XC: 39-06-59 / 84-30-07

Cincinnati: WEBN 102.7 PC< 16 kW, 866 ft,
 XC: 39-06-59 / 84-30-07

Delhi Hills: WYJC 90.1 NW, religion (Family Life
 Radio LMA through 1998)

Delphos: WBIE 91.5 5.3 kW, 328', DA (AFA), CC
 (NS)

Gallipolis: WRYV 101.5 CC (ex WMGG), FC to
 classic hits (Huntington, WV) "The River"

Greenville: WLSN 106.5 FC to country "Garth 106.5"

Harrison: WLNT 104.3 CX CP for 1.9 kW, 410 ft.,
 PG> 5.2 kW, 328 ft, XG: 39-13-34 / 84-42-59

Lebanon: WYLY 97.3 PC> 4.3 kW

Lima: WAJC 104.9 CC (ex WUZZ) "Magic 104"

Ottawa: WQTL 106.3 adds Bob & Tom

Pleasant City: *NS 92.1 6 kW, 282 ft.

Shelby: WAUI 88.3 NO-GE, LC

**OKLAHOMA:**

Ardmore: KLCU 90.3 NW, info, classical // KCCU
 XG: 34-51-11 / 96-45-52

Cordell: KCDL 99.3 PC> 10.5 kW, 505 ft, C3,
 XC: 35-26-49 / 98-59-16

Enid: KOFM 103.1 OSA to C2, 50 kW, 492 ft,

XG: 36-29-30 / 97-56-08

Eufaula: KCES 102.3 NC to 102.5 - C3, 10.5 kW,
 505 ft, XC: 35-06-09 / 95-36-53

Idabel: KBEL 96.7 adds Real Country (&)

Magnum: KHIM 97.7 NW, southern Gospel (&)

Pawhuska: KBVL 103.9 CC (ex KTGP), FC to
 classic rock

Snyder: KBKF 100.3 CC (NS)

Woodward: KMPQ 95.9 NO-GX

OREGON:

Corvallis: KLOO 106.1 FC to classic hits

Medford: KOPE 103.5 FC to oldies "Kool 103.5"

Redmond: *NS 88.9 AF (State of Oregon)

Springfield: KQFE 88.9 PC> 1,250 watts

FM NEWS PAGE 5

PENNSYLVANIA:

Franklin: WAWN 89.5 NW, AFA Cont. Christian (&) Freeland: WWFH 103.1 FC to soft AC // WSHG Laporte: WRPA 103.9 NW, classic rock (&) Lewistown: WMRF 95.9 OSA for 95.7, ND Markleysburg: *NS 89.1 AF Philadelphia: WIOQ 102.1 FC to CHR Pittston: WSHG 102.3 will remain soft AC (has decided not to go to talk format) (Scranton) CC (ex WILK) Pt. Matilda: WIKN 107.9 PC< 450w, 1174 ft, DA, XC: 40-55-11 / 77-58-28

SOUTH CAROLINA:

Aiken: WKXC 99.5 PG< 24 kW, 712 ft, XG: 33-38-44 / 81-55-45 Bowman: WSPX 94.5 PC> 6 kW Hampton: WBHC 92.1 QC from 103.1, PC> 6 kW, FC to country "B 92.1" Moncks Corner: WNST 105.3 FC to rhythmic oldies "Cool" (Charleston) Seneca: WPEK 98.1 replaces Imus in morning drive with Lex & Terry, dec. to 997 ft. W.Columbia: WSCQ 100.1 drops talk for just adult standards

SOUTH DAKOTA:

Dell Rapids: KSOB 95.7 NW, classic rock Lennox: *** 93.1 PA: add class C3 Sioux Falls: KRRO 103.7 PC< 38 kW, 394 ft, XC: 43-27-28 / 96-40-14

TENNESSEE:

Lynchburg: *** 107.1 XA: add class A Memphis: WEGR 102.7 PG< 87 kW, 945 ft, XG: 35-16-33 / 89-46-38 Middleton: WBDJ 100.7 CC (NS) Olive Hill: WDNX 89.1 PC< 40 kW (h), 249 ft, C2 Petersburg: *** 107.1 XA: add class A Red Bank: WJTT 94.3 CX CP for 299 ft. Ripley: WAUV 89.7 NO-RE Signal Mtn: WLOV 98.1 FC to R&B Oldies "Love 98" CC (ex WXKT) Tullahoma: *** 107.1 XA: add class A

TEXAS:

Ballinger: KCSE 103.1 OSA to C1, 100 kW, 456 ft, XG: 31-39-37 / 100-05-23 Beaumont: KTCX 102.5 FC to urban "Magic 102.5" Beaumont: KYKR 95.1 NC to 1070 ft, C1, XC, GE (3rd) Beeville: *NS 91.3 1 kW, (v), 302 ft. Borger: KASV 88.7 NW, religion // KJRT Caldwell: KLTR 95.1 NO-GE College Stn: KTSR 92.1 NC to 95.1 - C2, PC> 50 kW, 492ft, GE Comanche: KOXZ 94.3 NO-GX



Soft Rock
8979

JANUARY 1999

Texas:

Dallas: KBFB 97.9 picking up ac tempo a bit Faifurrias: KDFM 103.3 NW, Spanish c. Christian Flower Mound: KNKI 96.7 FC to soft oldies "Memories" (Dallas) "Memories 96.7" Franklin: KZTR 101.9 FC to hot AC (Bryan) Hillsboro: KBRQ 102.5 FC to rock (Waco) Jacksonville: KLJT 102.3 PC> 6 kW Linden: KIXX 99.3 NO-RE (2nd) Littlefield: KAIQ 95.5 NO-GE (5th) Lufkin: KAVX 91.9 LC Palestine: KLIS 96.7 NC to 50 kW, 384', DA, RE Pampa: KAXH 90.9 NW, AFA cont. Christian (&) Pittsburgh: *NS 96.9 3.9 kW, 390 ft. Pittsburgh: KXAL 103.1 OSA to C3, 25 kW, 302 ft, XG: 32-51-23 / 94-57-00 Plainview: KHDY 106.9 PG> 50 kW, 469 ft, DA Pt. Comfort: KAJI 94.1 LC Round Rock: KFKM 105.9 FC to rhythmic oldies San Angelo: KMDX 105.7 NW, JRN hot AC "Mix 105" Sanger: KBJV 89.7 CC (NS) Sterling City: KCSE 96.5 FC to ABC (&), CC (ex KKCN), (ABC A/C carried 10a-1p, 6p-6a) Whitewright: *** 99.9 PA: add class A Winona: *NS 102.7 6 kW, 328 ft, DA

UTAH:

Levan: *NS 99.1 6 kW, 328 ft. Park City: KPCW 91.9 PG> 120w, 2122 ft, DA, XG: 40-36-34 / 111-28-49 Tremonton: KNFL 104.9 CX CP for 10 kW, 1099 ft, XC: 41-35-34 / 112-13-55, PG> 100 kW, 1059 ft, Class C Vernal: K218CT 91.5 NS-92w: KUSU 91.5

VERMONT:

Stowe: WCVT 101.7 PG> 135w, 2066 ft, XG: 44-25-44 / 72-49-42

VIRGINIA:

Buena Vista: WREL 96.7 NC to 10 kW, 492 ft, B1, XC, GE (10th) Charlottesville: WUVA 92.7 XC: 37-59-08 / 78-78-47 Colonial Bch: WGRQ 95.9 PC> 2.4 kW Danville: WOKD 91.1 NO-RE Petersburg: WVST 91.3 PC> 2.2 kW (v), 167', DA Spotsylvania: WYSK 99.3 FC to CHR "Y 99.3" Warrenton: WUPP 94.3 PG< 2 kW, 574 feet, XG: 38-44-31 / 77-50-07 Winsdor: WSVY 107.7 NC to 1.7 kW, GE (3rd)

WASHINGTON:

Davenport: KKRS 97.3 NW, religion // KAWZ Grandview: KARY 100.9 FC to oldies "The Cherry" Hoquiam: KGHO 95.3 NC to 5 kW, 436 ft, C3, RE Ilwaco: KBKH 103.9 CC (NS) Port Townsend: K201ET 88.1 NS-2w: KAWZ-ID Seattle: KZOK 102.5 NC to 58 kW, 2342', RE (4th) Shelton: KRXY 94.5 NW, a/c (Olympia) Spokane: KNJY 103.9 increases to 1417 ft, C2, XC: 47-36-04 / 117-17-53

JANUARY 1999

EM NEWS PAGE 6

WEST VIRGINIA:

Arnoldsburg: *** 100.7 PA: add class A Gassaway: *** 98.5 PA: add class A Peterstown: *** 96.7 PA: add class A

WISCONSIN:

Berlin: WBZJ 102.3 CX CP for 104.7, 1.5 kW, 459 ft, XC, QG to 104.7, but at 3.4 kW, 351 ft, XG: 43-53-57 / 88-53-57 Brillion: WEZR 107.5 NC to 5 kW, 751 ft, ND, C3, GX

Milwaukee: WLUM 102.1 adds Mancow mornings River Falls: WEVR 106.3 PC> 6 kW, 328 ft, XC: 44-53-19 / 92-39-04

Sister Bay: WHDI 89.7 CC (NS)

Sister Bay: WHND 91.9 CC (NS)

Sturgeon Bay: WRGX 89.5 LC

Wausau: WCLQ 89.5 PC< 5 kW, 571 ft, XC: 45-55-11 / 89-40-45

Wisconsin Rapids: WGLX 103.3 dec. to 325 feet, XG: 44-24-57 / 89-50-04

WYOMING:

Ethete: KWRR 89.5 NO-RE (4th)

GUAM:

Dededo: KGUM 105.1 CC (NS)

PUERTO RICO:

San Juan: WIOA 99.9 PG< 31 kW, 1837 ft, XG: 18-16-44 / 65-51-12

Cruz Bay: WWKS 101.3 adds Tom Joyner

JANUARY 1999

CANADA



ALBERTA:

High Level: *NS 106.1 8765w, // CKKX-FM

ONTARIO:

Cornwall: CFLG 104.5 PG> 30 kW

Iroquois: *NS 107.7 50 w. (Seaway Campus) London: *NS 102.3 CRTC taking applications for new station here

Penetanguishene: CBCM 89.7 QC from 107.5

Peterborough: CBCP 93.5 QC to 98.7, 10170w

Simcoe: *NS 98.9 1090w station wanted to rebroadcast CKPC 1380 Brantford

Simcoe: CHCD 106.7 PG> 3,420 w (station already operating at this power)

Welland: CHOW 1470 QG to 91.7, 25 kW

QUÉBEC:

Sacré-Cœur: CHME-1 99.7 NW, French AC // CHME-FM

Ste-Marie-de-Beauce: CHEQ 101.3 CC (ex CJVL) FC to French AC, QC from 1360, now 4677w

Tadoussac: CHME-2 99.7 NW, French AC // CHME-FM

Trois-Pistoles: CIBM-2 PG> 183 watts

PIRATE WATCH:

- PITTSBURGH, PA.** The FCC, with cooperation from the FBI, closed down Mark Lange's "Radio Carson", which operated on 91.7.



TV NEWS

Douglas E. Smith W9WI
1385 Old Clarksville Pike
Pleasant View, TN 37146-8098
w9wi@bellsouth.net

January 1999

#: Non-commercial station
nc: No Change
+/-: Channel offsets (plus,
z/n: minus, zero, and none)
^: Digital TV station

APPLICATIONS FOR NEW STATIONS

St	Ch	ERP	Ht.	City	Applicant	Latitude	Longitude
BC	8	0.01		Lone Prairie	CHAN [8]		
BC	7	0.001		Riske Creek	CITV [13]		
CA	32^	200	960	Anaheim	KDOC [56]	34-13-37	118-03-58
CA	30^	200	605	San Diego	KPBS [15]#	32-41-46	116-56-08
FL	47^	200	310	Hollywood	WAMI [69]	25-57-59	80-12-33
FL	48^	200	116	Live Oak	WFNU [57]	30-33-00	83-00-46
IA	50^	966	593	Des Moines	KDIN [11]#	41-49-47	93-36-56
MA	58^	50	294	Springfield	WGBY# [57]	42-14-29	72-38-56
MI	39^	795	416	Calumet	WBKP [5] (2)	46-26-21	88-03-01
MO	5-	75	282	St. Louis	KSDK [5] (1)	38-34-05	90-19-55
NY	28^	178	448	New York	WNBC [4]	40-42-43	74-00-49
OR	30^	741	528	Portland	KPTV [12]	45-31-19	122-44-53
SK	27	0.02		Quill Lake	Discovery		
TN	28^	906	313	Memphis	WREG [3]	35-10-52	89-49-56
UT	17^	188	825	Ogden	KUWB [30]	40-16-45	111-56-00
VA	16^	200	377	Hampton	WERQ [15]	36-48-31	76-30-13

(1) The KSDK application is for an auxiliary backup transmitter.

(2) WBKP-DT is 100km southeast of their analog transmitter on channel 5, and much closer to Marquette, the largest city in that part of Michigan. The location of the analog transmitter is limited by the presence of WLUC [6] in Marquette, but of course the presence of a channel 6 transmitter doesn't limit the placing of the DTV transmitter on channel 39.

CONSTRUCTION PERMITS GRANTED FOR NEW STATIONS

St	Ch	ERP	Ht. / Call	City	Applicant	Latitude	Longitude
AL	23-	1960	283	Tuscaloosa	S. Fader	33-03-15	87-32-57
BC	17	0.1		McBride	TSN sports		
CA	65^	1000	902	Los Angeles	KTTV [11]	34-13-29	118-03-48
CA	66^	371	888	Los Angeles	KCOP [13]	34-13-42	118-04-01
CO	16^	290	434	Denver	KUSA [9]	39-43-46	105-14-02
CO	17^	25	450	Denver	KMGH [7]	39-43-40	105-14-03
CO	19^	860	403	Denver	KTVD [20]	39-43-48	105-14-05
CO	32^	223	296	Denver	KDVR [31]	39-43-45	105-14-12
CO	35^	490	452	Denver	KCNC [4]	39-43-48	105-14-02

New station permits expired, dismissed, etc.:

St	City	Ch	# permits	St	City	Ch	# permits
AL	Tuscaloosa	23	2				

APPLICATIONS TO CHANGE EXISTING FACILITIES

St	Ch	ERP	HAAT	Call	City	Latitude	Longitude
MA	2+	72.4	395	WGHH#	Boston		
MN	58n	7		K58BS	Minneapolis		
PA	52+	0.2		W52CE	Sayre	41-57-38	76-32-56
TN	30z	3020	340	WLMT	Memphis	35-16-33	89-46-38

APPLICATIONS TO CHANGE CONSTRUCTION PERMITS

St	Ch	ERP	HAAT	Call	City	Latitude	Longitude
AL	28-	16.3		W28BR	Birmingham	33-28-18	86-50-03
AR	14-	30.98		K14IV	Little Rock	34-49-52	92-19-18
CO	21z	1000	nc	KXRM-TV	Colo. Springs		

APPLICATIONS TO CHANGE CONSTRUCTION PERMITS

St	Ch	ERP	HAAT	Call	City	Latitude	Longitude
FL	48z	50		W48CI	Miami		
HI	44n	0.365		K44DQ	Kaneohe		
IA	23-	4966	613	KPWB-TV	Ames	41-49-47	93-36-56
IL	34z	0.5		W34CK	Arlington Hts	41-52-44	87-38-10
LA	11+	316	544	KAQY	Columbia	32-05-42	92-10-34
MS	43z	1702	238	WMAA#	Columbus	33-51-12	88-25-33
WA	49-	2920	nc	KPDX	Vancouver		

The new coordinates of W34CK are on the Sears Tower in Chicago.

LPTV DISPLACEMENT APPLICATIONS

St	City	Call	Fm	To	St	City	Call	Fm	To
AR	Paris	K60EP	60	53+	NY	Mineola	WLIG-LP	57	54-
CA	Litchfield	K1RL	11	57	OK	Nowata	K60EX	60	25+
CA	Modesto	KA2V-LP	14	33z	OK	Poteau	K50CO	50	59z
CA	National City	K61GH	61	58z	OR	Corvallis	K26AY	26	52+
FL	Ft. Walton Bch.	W65DH	69	18	OR	Glide	K68BG	68	24-
FL	Jacksonville	W67DL	67	45	OR	Medford	K68FW	68	28+
GA	Roswell	W22CD	22	32	TX	Dallas	K19DW	19	44z
GA	Vidalia	W46CA	46	19	VA	Chesapeake	W60BR	60	25-
MI	Dearborn	W68CH	68	33+	VA	Richmond	WXOB-LP	14	17z
NC	Asheville	W23BU	25	43	VA	Va. Beach	W67CZ	67	30
NM	Gallup	K69BW	69	48	WA	Spokane	K13HE	13	11+
NM	Las Vegas	K65BQ	65	33+					

K60EP is listed in the Public Notice as being located at "Pharis", Arkansas, but at "Paris" in the FCC database. The name of the licensee is "Pharis Broadcasting Inc." - I would assume that's where this typo came from...

CHANGES GRANTED TO EXISTING FACILITIES

St	Ch	ERP	HAAT	Call	City	Latitude	Longitude
DC	4-	nc	227	WRC-TV	Washington		
IN	23z	nc	294	WNDY-TV	Marion		
PR	20z	78	288	WPKV	Ponce	18-04-49	66-44-53
TN	24z	3020	340	WPTY-TV	Memphis	35-16-33	89-46-38
VA	65+	2710	nc	WUPV	Ashland		
VT	39z	44		WBVT-LP	Barre (1)	44-07-29	72-28-49
WA	22z	1875	nc	KSKN	Spokane		
WI	12z	229	337	WISN-TV	Milwaukee	43-06-42	87-55-42

(1) WBVT-LP also granted permission to move from Burlington, VT.

CHANGES GRANTED TO CONSTRUCTION PERMITS

St	Ch	ERP	HAAT	Call	City	Latitude	Longitude
AZ	34-	0.85		K34EE	Cottonwood		
FL	63z	5000	157	WPPB-TV#	Boca Raton	26-09-11	80-10-12
IA	44+	5000	596	KPTH	Sioux City	42-35-12	96-13-18
LA	11+	316	544	KAQY	Columbia	32-05-42	92-10-34
MA	48+	240	246	WYDN#	Worcester	42-18-14	71-53-51
OH	30z	2040	358	WHCP	Portsmouth		
PA	18-	0.17		W18CE	Hazleton	41-02-13	76-05-07
TX	43-	12.4		KHLM-LP	Houston		
UT	24z	nc	246	KAZG	Ogden		
WI	48z	nc	nc	WEUX	Chippewa Fls.	44-57-24	91-40-03
WV	28+	19.2		W28AS	Wheeling	40-03-41	80-45-08

The WEUX [48] change is a correction of the coordinates on the license; nothing has actually moved.

LPTV DISPLACEMENTS GRANTED

St	City	Call	Fm	To	St	City	Call	Fm	To
AR	Fort Smith	KFDF-LP	32	7z	IA	Iowa City	K39EX	64	39-
AR	Little Rock	KKYK-LP	22	23	IL	Springfield	W08DP	65	8-
AR	Bullhead City	K61HA	20	61z	IN	Evansville	WWAZ-LP	52	17-
AR	Williams	K43FT	25	43	IN	Evansville	WEOA-LP	67	50-
CA	Blythe	K31FE	67	31	KS	Overland Park	K27FR	68	27+
CA	Chester	K28FY	54	28	KY	Louisville	W50CJ	49	50
CA	Daggett	K26FO	67	26	LA	Leesville	K1FO	52	51+
CA	Fresno	KJKZ-LP	28	27	LA	New Iberia	K54FT	55	54z
CA	Likely	K49EZ	68	49	LA	Opelousas	K50FI	66	50z
CA	Sacramento	K14JW	62	14z	MI	Kalamazoo	W26BX	24	26-

CA	29 Palms	K15FC	61	15	MN	Alexandria	K55ID	24	55z
CA	Yreka	K49EY	64	49	MN	Fergus Falls	K49FA	28	65+
CO	Akron	K35FI	16	35	MN	Branson	KNUJ-LP	19	59+
CO	Akron	K41EV	18	41	MO	Jackson	W46CW	62	46
CO	Akron	K43FS	20	43	MS	Natchez	W59DK	58	59-
CO	Akron	K45FD	24	45	MS	Pascagoula	W51CU	46	51+
CO	Akron	K47FT	26	47	MS	Burnsville	W60CS	9	60+
CO	Akron	K49EX	28	49	NC	Culbertson	K44FN	12	44+
CO	Holyoke	K55IB	30	55	NE	Falls City	K46FG	24	46
CO	Holyoke	K15FD	63	15	NE	Alamogordo	KVBA-LP	63	19
CO	Holyoke	K17EU	65	17	NM	Albuquerque	KTEL-LP	15	53z
CO	Holyoke	K19EG	67	19	NM	Artesia	K46FE	40	46
CO	Holyoke	K21FF	61	21	NM	Austin	K46FB	60	46
CO	Idalia	K16EK	46	16	NV	Walker Lake	K24EY	44	24
CO	Idalia	K18FO	48	18	NV	Elmira	W21BW	42	21-
CO	Idalia	K24EZ	50	24	NY	Columbus	WCLL-LP	64	19-
CO	Idalia	K26FP	52	26	OH	Findlay	WFND-LP	47	54z
CO	Idalia	K28FX	54	28	OH	Burns	K52FX	69	52
CO	Peetz	K14JZ	15	14	OR	Chambersburg	W19CG	38	19
CO	Peetz	K16EJ	17	16	PA	Amarillo	KCPN-LP	65	33z
CO	Peetz	K18FN	19	18	SC	Honea Path	W65DS	45	65
CO	Peetz	K32BX	60	32	SC	Orangeburg	W55CQ	52	55
CO	Wray	K44FM	56	44	SD	Belle Fourche	K20FT	19	20
CO	Wray	K46FF	58	46	SD	Brookings	K54FU	15	54
CO	Wray	K48GA	60	48	SD	Nashville	W26BW	68	26-
CO	Wray	K50FJ	62	50	TN	Lubbock	K50FJ	67	50z
CT	Stamford	K52FZ	64	52	TX	Amarillo	K50FJ	67	50z
FL	Daytona Beach	W57CV	42	57+	TX	Longview	K58FS	22	58+
FL	Ft. Walton Bch	W26BV	66	26-	TX	Lufkin	K48GB	64	48z
FL	Jacksonville	WWRJ-LP	38	27-	TX	Matador	KFXL-LP	30	58-
FL	Panama City	W14CN	64	14+	TX	Matador	K40FK	62	40z
FL	Panama City	W17CG	16	17	TX	Matador	K42ES	66	42z
FL	Vero Beach	W66DD	50	66	TX	Matador	K45FE	64	45-
GA	Morrow	W55CR	19	55	VA	Fairfax	W44BT	42	44+
IA	Ames	K48FZ	52	48	VA	Hampton	W47CE	62	47z
IA	Davenport	K16EL	66	16z	VA	Lynchburg	W40BM	32	40
IA	Des Moines	K29EA	35	29+					

LPTV DISPLACEMENTS DISMISSED/DENIED

St	City	Call	Fm	To	St	City	Call	Fm	To
CA	Lakeport	K68AL	68	18-	NM	Tucumcari	K63BR	63	29
GA	Hinesville	W39BV	39	50+	OK	Tahlequah	K45ER	45	20-
IN	Indianapolis	W53AV	53	61	TX	Laredo	K61GY	61	25+
KY	Louisville	W08CT	8	60+	TX	Round Rock	KHPZ-LP	64	31z
NC	Roanoke Rapids	WVN-NLP	20	60	TX	San Antonio	K68EI	68	14+
NE	Neligh	K28AP	28	35z	WI	Milwaukee	WKW-LP	8	38+
NE	O'Neill	K34CU	34	33z					

Changes expired, dismissed, etc.:

St	City	Ch	Call	St	City	Ch	Call
AL	Decatur	56	WYAM-LP	NY	Rochester	21	WXXI-TV#
FL	Key West	22	WEYS				

TECHNICAL CHANGES ON THE AIR

St	Ch	Call	City	What happened
AK	13n	K13XD	Fairbanks	power increase 550>740 watts.
CA	18-	KSCI	Long Beach	move from San Bernardino. (no change in tower location)
CO	21z	KXRM-TV	Colorado Springs	increase power 1050>1700KW and tower height 634>656m, move a few dozen meters.
FL	12z	WPEC	Palm Beach	increase tower height 10m, correct coordinates.
IA	45z	KDAO-LP	Marshalltn.	move from ch. 39, decrease power 3.9>2.97KW. Offset should be minus, but Jeff Kadet says they're on zero.
IL	22+	WMEC#	Macomb	move about 6km southwest and decrease tower height 9m.
IL	16+	WTJR	Quincy	increase power 603>1020KW and tower height 302>308m.
KY	15z	WKPC-TV#	Louisville	correct coordinates & increase tower height 2m.
NV	58n	K58FM	Round Mountain	decrease power 485>389 watts & move about 5km south.
	61n	K61GL		

TECHNICAL CHANGES ON THE AIR

St	Ch	Call	City	What happened
NY	51z	W51BA	Syracuse	increase power 13.1>21.8KW and 3km west.
NY	26-	WNGN-LP	Troy	move from zero offset; decrease power 29.66KW; move 20km west.
OR	20z	K20BI	Nesika Beach	decrease power 15.6>1.56KW.
TX	58+	K48FU	Cisco	move from ch. 48, decrease power 16.7>7.37KW, move about 22km west-southwest.
VA	45-	W45BG	Va. Beach	increase power 6.9>39.1KW.
WA	54n	K54DU	Richland	power decrease 1.81>0.7KW.

NEW STATIONS ON THE AIR OR REQUESTING OPERATING LICENSE

St	Ch	ERP	HAAT	Call	City	Latitude	Longitude
CA	4-	0.28		K040B	Bakersfield	35-26-16	118-44-28
CA	53^	182	924	KABC-DT	Los Angeles	34-13-37	118-03-58
CA	60^	469	1087	KCBS-DT	Los Angeles	34-13-55	118-04-18
CA	15n	18		K15CY	Sacramento	38-42-26	121-28-33
CA	49+	32.9		K49DD	Sacramento	38-40-22	121-19-52
CO	32-	22.2		K32EO	Colo. Springs	38-44-40	104-51-42
DC	34^	646	254	WUSA-DT	Washington	38-57-01	77-04-47
DC	39^	646	254	WJLA-DT	Washington	38-57-01	77-04-47
GA	10^	16.5	303	WXIA-DT	Atlanta	33-45-24	84-19-55
GA	19^	49	329	WGNA-DT	Atlanta	33-48-27	84-20-26
GA	39^	490	304	WSB-DT	Atlanta	33-45-51	84-21-42
HI	44n	6.78		K44DQ	Kaneohe	21-25-31	157-45-37
MI	5-	100	295	WBKP	Calumet	47-02-12	88-41-42
MI	58^	1000	274	WJBK-DT	Detroit	42-27-38	83-12-50
MS	49-	20.5		W49BX	Jackson	32-16-53	90-17-41
MS	53	20.5		W53BO	Jackson	32-16-53	90-17-41
MT	18z	1780	585	KWYB	Butte	46-00-24	112-26-30
NJ	7-	0.029		W07CE	Atlantic City	39-23-24	74-30-45
NM	25n	1.23		K25FI	Mora	35-57-39	105-21-13
NV	25-	13.4		K25FX	Reno	39-35-02	119-47-51
NY	56^	349	397	WCBS-DT	New York	40-44-54	73-59-10
NY	56+	5000	379	WSPX-TV	Syracuse	43-18-18	76-03-00
OH	40-	4170	174	WLMB	Toledo	41-44-41	84-01-06
PA	26n	0.71		W26AV	Charleroi	40-07-24	79-53-46
PA	42^	305	161	WTFX-DT	Philadelphia	40-03-33	75-14-21
PA	64^	1000	332	WPVI-DT	Philadelphia	40-02-33	75-14-33
PA	64^	500	390	WPVI-DT	Philadelphia	40-02-33	75-14-33
SC	67+	21.2		W67DP	Columbia	33-52-27	81-11-05
TX	9^	16.6	527	WFAA-DT	Dallas	32-35-06	96-58-41
TX	35^	857	510	KDFW-DT	Dallas	32-35-06	96-58-41
TX	31^	759	551	KHOU-DT	Houston	29-33-40	95-30-04
TX	16+	209	83	KPTB	Lubbock	33-33-12	101-49-13
TX	59+	1		K59FQ	Victoria	28-46-37	96-57-45
WA	48^	960	239	KING-DT	Seattle	47-37-55	122-20-59
WI	34z	2570	127	WYOW	Eagle River	45-46-30	89-14-55
WI	26^	171	455	WKOW-DT	Madison	43-03-21	89-32-06

The WUSA-DT and WJLA-DT facilities are not typos - both have the same facilities. WPVI-DT had filed an application to amend its DTV CP. I have no record of this CP being granted, but it may have been, so I don't know which facilities this station is actually using.

STATIONS DELETED/DISMISSED/OFF AIR/ETC.

St	Call	St	Call	St	Call	St	Call
FL	W32BO	MI	W15BM	MO	K23EL	MT	K34ER
ID	K49EL	MI	W16BQ	MO	K29DM	MT	K34ES
LA	K43FC	MI	W17CC	MO	K68FJ	MT	K47FF
		MI	W45BN	MS	W17BX	MT	K58FF
		MI	W56DF	MS	W50CB	ND	K27FM
		MI	W58CN	MS	W68DC	OK	K31EU
						WA	K29DR

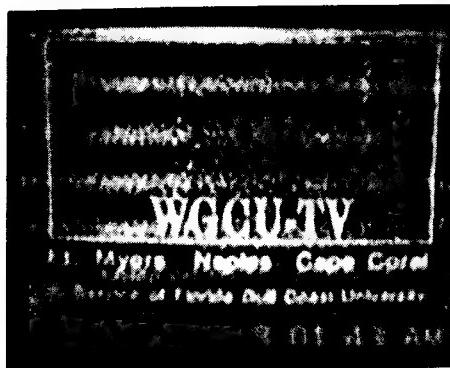
PHOTO-NEWS

Jeff Kruszka, Editor
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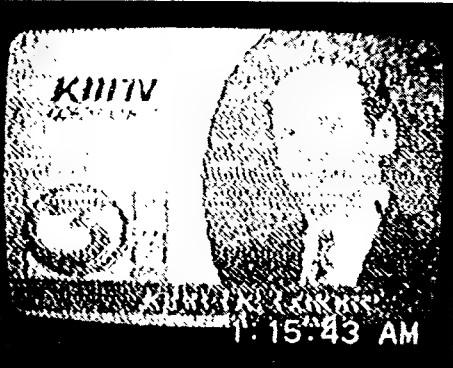
January 1999

Happy New Year! It's time to show off some of my DX from last May. I wish I would have taped more!

Equipment: 1992 Zenith "Sentry 2" 13" color TV, Channel Master 4228A screened 8-bay w/RDX Labs UA-900 preamp for UHF, Channel Master 1114 Crossfire w/RDX Labs UA-702 preamp for VHF, both @20 ft. AGL. DX videotaped w/Sony Handycam model CCD-TR91.



WGCU-30 Fort Myers, FL
620 mi Tr seen 5/9/98
@0301 ET
"Gulf Coast University"



KIII-3 Corpus Christi, TX
420 mi Tr seen 5/2/98
@0115 CT
"semi-local KATC-3 off"

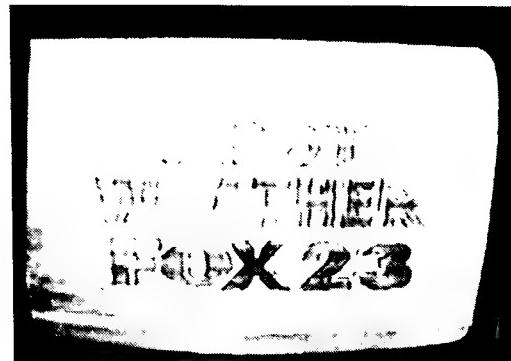


KHBS-40 Ft. Smith, AR
400 mi Tr seen 5/20/98
@2121 CT

XHTPZ-24 Tampico, TA
715 mi Tr seen 5/20/98
@1940 CT

PHOTO NEWS JANUARY 1999

PAGE 2



KOKI-23 Tulsa, OK
480 mi Tr seen 5/20/98
@2039 CT
"First Weather"



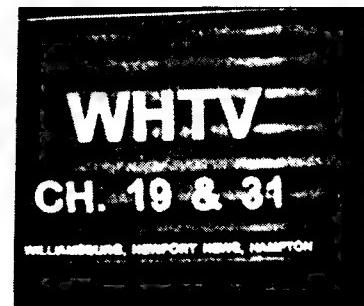
WDIV-4, Detroit, MI
935 mi Es seen 7/7/98
@1724 EDT



WRAL-5 Raleigh, NC
810 mi Es seen 12/28/97
@ 1659 ET

Now here's another one from Roy Barstow, Teaticket, MA:

W3IBG Yorktown, VA
440 mi Tr seen 8/7/98
@2100 ET
"WHTV fake calls"



Next month: Mexico to Iowa tropo!

73's, Jeff



IN OLD NEW YORK

(Several months ago this column published DX reception reports received by very early tv operations. Now, a few more items regarding startup and growing pains...mainly in New York City. Condensed from newspaper items in Jeff Miller's collection <<http://members.aol.com/jeff560/jeff.htm>>. If you're interested in broadcast history this is an excellent web site.)

First Night Difficulties Beset WOR-TV's Premier

(This article appeared in the New York Times, date uncertain.)

By SIDNEY LOHMAN

The gremlins of wartime fame apparently returned last Tuesday evening to play their tricks and raise havoc with WOR-TV's formal debut.

After functioning perfectly through weeks of experimental transmissions and rehearsals for the big day, the line carrying the sound portion of the opening night program "cut out" at 6:55 P. M., the exact moment when the station was scheduled to go on the air.

For the next few minutes the video audience could see John Gambling speaking but there was no sound. By one of those inexplicable coincidences, the sound channel was reactivated for exactly the one minute during which a bread commercial message was scheduled.

The station's switchboard was flooded with calls and 367 of them "got through" during the trouble period.

First night jitters also resulted in clearly audible applause during the "Handy Man" program which originates in a small, side studio - and which does not have an audience.

The station explains that the handclapping came from the main auditorium where Barry Gray was warming up an audience for his interview program to follow. Until its new studio space at 20 West Sixty-seventh Street is ready for use, all WOR-TV programs are originating from the New Amsterdam Roof Theatre, which has been leased and altered and refurbished for television.

Du Mont Gets FCC Nod For New Channel

(New York Times on Jan. 7, 1942.)

Washington, Jan. 6 (AP) -- The Federal Communications Commission granted permission today to Allen B. Du Mont Laboratories, Inc., of New York to build a new television station, which will operate on 78,000 - 84,000 kilocycles.

A representative of the Du Mont concern explained that the television station had been transferred to the commercial class and might broadcast commercial television programs when the equipment was ready. It was explained that several months might elapse, however, before this was possible.

The Du Mont station is on Channel No. 3 in the New York City area. Test programs are on the air at least one or two evenings a week. Good reception has been reported as far distant as Bridgeport.

DuMont's New Station Ready for Airwaves

(New York Times on Oct. 17, 1943.)

By T. R. KENNEDY JR.

Good news for television fanciers was forthcoming here during the past week. The Du Mont televue outfit in the high building at Fifty-third Street and Madison Avenue, revamped and refurbished during the past summer, is ready to go on the air regularly with three programs

weekly. A new "doughnut" video antenna has been installed atop the 130-foot steel mast that sprouts upwards from the building's top. The result is that Du Mont's signals are seen and heard with "exceptional" clarity within a 50 mile radius about the transmitter.

Reports of "good" reception are being received from points as distant as Philadelphia, Camden and Merchantsville, N. J. (suburb of Camden) and Wurtsboro, N.Y. (eighty miles northwest of Manhattan). The engineers are enthusiastic; such results were hardly to be expected considering the moderate height of the aerial - 635 feet - and that the optical horizon projected from the top of it is only about thirty miles from the station.

Antennas and antenna height have a lot to do with the distribution of televue signals. A previous system employed had been unsatisfactory over parts of Brooklyn, northeastern Manhattan and northern New Jersey. The new "doughnut", however, is said to indicate an even video/sound coverage outward to the fifty-mile radius, with somewhat spotty results beyond.

Tests are being carried on to determine maximum distances.

Du Mont programs, beginning tonight, will be on the air regularly Sundays, Tuesdays, and Wednesday from 8:30 to 10 P.M. on channel 4. There will be test patterns to aid in tuning programs, followed by various studio variety presentations and films. Samuel H. Cuff, news commentator, will be in charge.

For the time being W2XWV will get along with its present small studio, but a larger one is being planned "somewhere in Manhattan." It is to include the best in convenience, lighting, and general operational facilities.

Operating a modern television station is a big problem anytime, but a far greater one under wartime materials and manpower shortages, according to engineer W. J. Swenson.

Consider that to go on the air W2XWV uses 1,028 vacuum tubes of all types, 28 of them cathode ray tubes for monitoring the video signal. They are mounted in twenty or more six foot steel cases that bristle with glowing lights, meters, and knobs. Not a single piece of the equipment (all of it made in Allen B. Du Mont's Passaic, New Jersey factory) is

allowed to operate at less than 100 percent efficiency lest image or sound suffer in quality, or the extent of coverage shrink.

When films are used additional equipment must be turned on and brought into electrical synchronization.

Although the station normally radiates only about 2,000 watts of aerial power, 50 to 60 kilowatts (50,000 to 60,000 watts) of electrical power are continuously consumed from city power mains.

NBC Plans

(no source or publication date)

The rodeo, sports events, and other spectacles staged in Madison Square Garden will be televised - come October 25 - by station WNBT of the National Broadcasting Company on channel 1. The shows also will be relayed on a non-commercial basis to station WPTZ, Philadelphia and WRGB, Schenectady. Hockey, track meets, basketball - possibly boxing bouts and wrestling matches too - will be programmed.

Meanwhile, regular WNBT programs will continue on the air Mondays on No. 1 channel. From 4 to 5 o'clock there will be air raid warden lectures, a repeat showing from 7:30 to 8:30, and films and variety until 10:30 P.M.

News from CBS

(no source or publication date)

Television programs of the Columbia Broadcasting System go on the air Thursdays over WCBW on channel 2. Test patterns from 7:30 to 8 o'clock are followed by films until 10 P.M. This schedule will be continued indefinitely, according to director Worthington Miner, as long as the available materials and manpower hold out. Technical manpower shortages, he said, are the most pressing need and will determine WCBW's future.

For those who have home television receivers not in operating condition, the service outlook is "something less than bright." Skilled men are not available to "fix" ailing sets; neither are replacement materials. It is therefore estimated that the 1,000 to 2,000 receivers now inoperative in this area are likely to remain so indefinitely. This is the only "bad" news current in television circles.

EASTERN TV DX

Russell Miller
HC 61, Box 86B
N. Amity, ME 04471-9622
email address - estvdx@ainop.com

January, 1998

LOCAL TIME UNLESS OTHERWISE NOTED

Roy Barstow, P.O.Box 2488, Teaticket, MA 02536

October, 1998

11 Tr Mt. Clinton, NH 3,000 AG
1300 CBF7 2 PQ
CBMT 6 PQ
CHLT 7 PQ
CKSH 9 PQ
CFTM 10 PQ
CFCF 12 PQ
1330 CIVM 17 PQ
WNPI 18 NY
WNHT 21 NH
CIVS 24 PQ
WMEA 26 ME
W27BL 27 NH
W28— 28 VT (WVNY-22 ABC)
W14CK 14 VT

12 Tr N. Woodstock, NH (Parking Lot)

0900 2, 4, 7, 25 Boston

24 Tr 2200 W18BS 18 VA 450

W24BI 24 VA

2345 WRAY 30 NC

25 Tr 0030 WYDO 14 NC

WUNP 36 NC

WVBN-LP 19 VA

0100 W35BH 35 VA

W36BK 36 VA

W45BG 45 VA

0130 WNCN 17 NC

0200 WU NJ 39 NC

WSFX 26 NC

0215 W18BB 18 NC

0220 WR AZ 50 NC

26 Tr 1900 W15BK 15 NH

2000 W14CK 14 VT UPN

2100 WEK W 52 NH

W14AZ 14 NY

November, 1998

11 Tr 2000 WYDO 14 NC

WUNM 19 NC

WUNJ 39 NC

15, 27, 43 E. VA

17 Ms 0100 CKLT 3t NB

Talk Show - CTV L/R

0412 Montreal SRC/CBC

Slide 14 sec. ant. n.

20 Ms 0315 CBAFT 3 NB

4 Times 3/4 CB

to CHAU 3 PQ

4 Times Card & Music

0430 Ant. North

22 Tr 2100 WUNM 19 NC

22 Tr	WUNJ	39 NC	660
	2315 WNCN	17 NC	592
	2330 WYDO	14 NC	562
	WUNP	36 NC	533
23 Tr	0010 WRAY	30 NC	565
	0015 WSFX	26 NC	660
	0030 WUNU	31 NC	640
	0045 WFXI	8 NC	550
	0100 WVEC	13 VA	455
	2000 CBHT	11 NS	279
	CKLT	9 NB	345
	2100 CBHFT	3 NS	279
	2230 CIHF	8 NS	408

For the trip up north to NH, I used the ICOM R-10 with RS Model 15-1607 portable amp. The R-10, a hand-held unit, is very nice. Using the same antenna, on the ICOM-R100, a little less gain, but a good back-up if the R-100 goes dead. At this location on Cape Cod, NC picked up 12 different dates in August, in Sept., 10 times and for Oct. 4 times. On Cape Cod, there is never a season without DX. There may be a season here and there where NS may not make its appearance, but DX down the coast during June, July, Aug. is almost a sure guarantee. On Nov. 11 after a straight line front moved through, ducting to NC, gone in ½ hr.

Jim Ayers, 2497 Wind Forest Court, Norcross, GA
30071 jimayers@raider.net

September, 1998

11 Tr 2329 WCLF 22 FL 405
Many Tampa/Orlando/Naples/ Fort
Pierce relogs

October, 1998

20 Tr 0801 WUNF 33 NC 133

November, 1998

17 Gw WXIA-DT 10 Atlanta
New station on air
25 WGNX-DT 19 Atlanta
New station on air

This fall is really weak for DX. Lucky to break 100 miles here. WUNF had been the closest full-power station I still needed. The radiostation.com site listed in the October VUD is a great site for TV info now. It lets you enter your coordinates and it will list all the (full-power only) stations within any radius. I'd been wanting to see a list like this for years! With WUNF logged now, the closest (full-powered) ones I still need are the five in Knoxville at only 145 miles! Mountains! The farthest distance to the nearest full-powered on any channel here is 334 miles to channel 51 in Ocala. It was 1500 miles to the nearest station on some channels when I started Dxing. 73's Jim

Douglas E. Smith, W9WI, 1385 Old Clarksville Pike,
Pleasant View, IN 37146-8098

Not much, but it's something. The Leonids were a bit of a disappointment here — plenty of bursts but none strong enough to override the locals on 2/4/5 or even 200-mile WREG-3.

November, 1998

15 Tr 2214 KSLA 12 LA Shreveport 466
KTVE 10 AR El Dorado 371
"Region 10 News"

2251 KTRE 9 TX Lufkin "9 News"
2308 WXVT 15 MS Greenville, 278
MS State U football

16 Tr 0500 KTHV 11 AR Little Rock 323
distinctive ID

0504 KVTH 26 AR Hot Springs 363
local ad

0829 WSTR 64 OH Cincinnati 238
Florence KY ad

0834 WSBT 22 IN South Bend 363
calls, NOTE #1

0920 KTVE 10 AR El Dorado 371
still in

unID 60 w/"Matlock", who?
KYPX 42 AR Little Rock 323

// local WNPX 28
WIPX 63 IN Bloomington 214

// KYPX & WNPX, ex-WIIB

0930 WXIN 59 IN Indianapolis 246
0959 KETK 56 TX Jacksonville 566

Longview ad

1000 KASN 38 AR Pine Bluff 319
"UPN 38"

17 Tr 0927 Indianapolis 42/59 246
Cincinnati 9/48/64 238

0950 WLFI 18 IN Lafayette, ID 277
TN 42/43/46/57 Indiana/ Ohio/
Alabama/ East Tennessee

WPBY 33 WV Huntington 304
"WVPTV" ID

WRGT 45 OH Dayton 276
promos

WIPX 63 IN Bloomington ~200
// local WNPX 28

0732 WTJP 60 AL Gadsden ~200
TBN

0741 {WPXS} 13 IL Mt. Vernon 179
// local WNPX 28-Prev logged as WCEE

0746 WYMT 57 KY Hazard 222
0800 WKSO 29 KY Somerset 135

NOTE #2

0850 WFTET 58 IN Salem
someone under local WNAB

0855 WXIN 59 IN Indianapolis 246
WSTR 64 OH Cincinnati 238

0900 WIPX-LP 51 IN Indianapolis 238

01 Tr Pax, NOTE #3
1000 WTPV 47 IL Peoria 322
aural ID. Another PBS-47 in there too,
presumably WSBN-VA

NOTE #1: Running "Guiding Light". A soap opera at 8am
sure catches one's attention!

NOTE #2: This station is 100% parallel to WKD-29
Paducah, which was well atop the channel this morning
But this morning, there was a slowly-moving "ghost" against
WKPD, which peaked up on a Somerset heading

NOTE #3: W51BU Morse ID. The station is now WIPX-LP
but previous calls were W51BU. Presumably they haven't
reprogrammed the Ider yet.. Heterodyning with some other
channel 51 station, probably WSFJ-OH

Russell Miller, HC61 Box 86B, N. Amity, ME 04471

November, 1998

16 Ms 1156 WEWS 5 OH 753
1209 WJBK 2 MI 792

1231 WSJK 2 TN new for Ms 1027

17 Ms 0715 CKPR 2 ON new for Ms 1019
0746 KGAN 2 IA 1214

KGAN is rare for Ms, common for Es
due to hill to my west

25 Ms 0754 WFMY 2 NC
Strong burst like Es

Comments: Leonids was a disappointment. Maybe next
year?

I'm trying to familiarize myself with F2 in case the MUF
gets high enough for television. I'm not very well equipped
with only a US TV and VCR and the R-100 with no
sideband. I purchased a Radio Shack DX-398 Shortwave
radio to monitor 10 meters with USB and 40HZ tuning
increments. I'm using a ½ wave dipole mounted vertical on
my roof. It's 16' 3" long made from speaker wire. I'm
amazed how strong the 10 meter signals can be. European
stations peg the meter every morning from 7-11:30am. S.
America is spotty but can blast in anytime of day. Farthest
heard are Sochi, Russia; South Africa; Zimbabwe;
Argentina; Australia; New Zealand; Japan; Alaska. The
last four often squeaking in a little after dark as western US
stations are fading out. I ordered a call disc as I have a
load of unIDed countries prefixes to ID. I'm sure past F2
TV Dxers will score again as signals are so strong.

Now for another subject. When I began meteor scatter
Dxing a few years ago, stations in the 300-500 mile range
were very rare to receive. Needing considerable antenna
offset for specularity. Beginning last spring, I began
picking up stations of this distance with regularity,
becoming common while pointing at them. Roy Barstow
notes similar results. He picks up stations of this distance
to his north by pointing at them, but doesn't see them when
offset somewhat. I find this interesting.

Many Dxers have experienced UHF lightening scatter with
stations up to 500 miles coming in, acting similar to meteor
scatter. I've seen stations on UHF "too far" to be lightening
scatter and assumed them to be UHF meteor scatter (which
does exist). But what about these newly discovered
lightening sprites extending to the E-layer? They should
make for some long-haul lightening scatter I would think(?)

WESTERN TV-DX

January 1999

Dennis Park Smith, 3703 Dixon Street, Santa Barbara, CA 93105-2419 (805)687-7803

This report is for November 1998. TV-FM tropo between Santa Barbara and San Diego/Tijuana (up to 200 mi/320 km) continued occasionally though somewhat less pronounced because of overall cooler temperatures. Monitoring continues to be indoor TV and car radio FM.

Nov 1-4: Variably poor/fair --Stable air layering; mild temps statewide.

Nov 5-6: None -- Wind and some rain; layering

Nov 6-8: [Out of town] dispersed; colder temps

Nov 12 eve Suddenly up to poor, UHF fair--Again

Nov 13-16 Variably poor/fair stable but rem. cool

Nov 17-20 am: None --Unstable; weather front, windy

Nov 18 eve only: UHF poor while VHF none

Nov 20 eve Suddenly up to fair --stable again; cool

Nov 21: Still fair

Nov 22-23am: Down to poor

Nov 23 eve-25am: None --weather front

Nov 25 eve: Suddenly up to poor/fair --Stable again, cool

Nov 26-27: Variably poor/fair

Nov 28-30am: None --Nov 28 rain

Nov 30 eve: Briefly up to poor --After that, rain

A new Channel 19 LPTV was noted Nov. 6 at Santa Barbara with Spanish music videos, possibly Mas Musica TeVe. Poor/very poor but steady since then. Tentatively guessing that it is from Ventura at 25+ miles.

Danny Oglethorpe, P.O. Box 6688, Shreveport, LA 71136-6688

November 1998 UTC

06 Es 1400 unIDs 2 Mexico; XEW and other

1435 unID 5 Mexico; XEW

07 Es 0150 unIDs 2 Mexico; XEW and other

0240 XHFM 2 VER Televier 950

09 Es 0045 unIDs 2, 3, 4, 5, 6 Mexico

0110 XHATU 5 JAL 1000

0140 XHG 4 JAL 1003

16 tr 0405 KVTJ 48 AR Jonsboro//25, 26 285

0410 WBXX 20 TN Crossville; WB20 557

WCTE 22 TN Cookeville 538

0435 WNPX 28 TN Cookeville 538

0713 KBSI 23 MO Cape Girardeau 416

0745 WPSD 6 KY Paducah; local off 437

0753 WWTO 35 IL LaSalle 669

1345 WEHT 25 IN Evansville 519

WFIE 14 IN Evansville 519

1355 WKMA 35 KY Madisonville; KET 492

WTCT 27 IL Marion 459

1408 WDKA 49 KY Paducah; UPN49 437

WWAZ 19 KY Madisonville; WB19 492

Victor Frank
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e-mail frank@horizon.sri.com
(650)851-7031

1420	WHMB	40	IN	Indianapolis; Rel.	663
1440	WKOH	31	KY	Owensboro; KET	528
1445	WFYI	20	IN	Indianapolis	663
1518	WSIU	8	IL	Carbondale	449
1610	WEVV	44	IN	Evansville	519
Es 1750	WMAR	2	MD	Baltimore	1072
17 Es 1415	WBAY	2	WI	Green Bay	892
1455	XEFB	2	NL	Monterrey; "21 MTY"	611

Eric Bueneman (N0UIH), 631 Coachway Lane, Hazelwood, MO 63042-1347 Phone: (314) 839-9751 (prepaid only), E-mail: N0UIHEric@aol.com
World Wide Web:
<http://members.aol.com/n0uiheric/k-index.html>

Equipment: Alaron 12-inch (30 cm) black and white television, Radio Shack VU-210XR with Radio Shack Archerotor at 33 feet (10 meters) above ground level, 540 feet above sea level. All times CST, all distances in miles/kilometers.

December 1, 1998 (trop)

0143	KSNF	16	MO	Joplin (over WUSI/WMTU)	250/402
0147	WLKY	32	KY	Louisville (Grade A signal)	250/402
0149	Evansville,	IN	14, 25	(both Grade B)	165/266
0203	KTEJ	19	AR	Jonesboro (ID for AR ETV)	200/322
0210	KMCN	38	KS	Lawrence	255/410
0307	WPYI	24	TN	Memphis "ABC 24" (KNLC off)	250/402
0315	WDRB	41	KY	Louisville "Fox 41"	250/402
0322	WMTU	16	TN	Jackson "UPN 30"	235/278
0330	WNPX	28	TN	Cookeville/Nashville	325/523

A long string of highs in the 60s and 70s led to this opening to kick off the Christmas season. With local KNLC-24 off for maintenance, the signal on WEHT-25 was much better. KTEJ-19 was a pleasant surprise, carrying educational videos, and IDing for the entire Arkansas Educational TV network. With KNLC off, it was easier to bag DX on channel 24, and I was able to do just that, pulling in WPYI. WNPX-28 was another pleasant surprise, carrying Pax's WorshipNet //WPXS-13 and K40FF-40. The duct extended basically from Lawrence, KS to Louisville, KY.

December 1, 1998 (trop)

2315	WLIO	35	OH	Lima (Grade B signal)	360/579
2320	WHMB	40	IN	Indianapolis (over K40FF)	240/386
2322	WUAB	43	OH	Lorain/Cleveland "UPN 43"	475/764
2325	WRGT	45	OH	Dayton	340/547
2330	WXIN	59	IN	Indianapolis (Local Grade A signal)	240/386
2355	W56DN	56	IN	Evansville (w/Panda Shopping Network)	165/266

Western TV DX *E. Bueneman's report cont'd*

December 2, 1998 (trop)

0002	W38BK	38	IN	Evansville (TBN)	165/266
0003	WKOH	31	KY	Owensboro (KET)	195/314
0004	WKZT	23	KY	Elizabethtown (KET)	260/418
0013	WGRB	34	KY	Campbellsville "WB 34"	290/467
0018	WTVS	56	MI	Detroit "Detroit Public TV"	460/740
0020	WDPX	26	OH	Springfield/Dayton (ex-WTJC)360/579	
0030	South Bend	16, 22	(Grade B), 34, 46	300/483	
0039	WVIZ	25	OH	Cleveland	500/805
0043	WWHO	53	OH	Chillicothe/Columbus "UPN 53"	

0046 WKBD 50 MI Detroit "UPN 50" 400/644

0101 WQHS 61 OH Cleveland 460/740

0117 WDKY 56 KY Danville "Fox 56" 315/507

0133 WKJG 33 IN Fort Wayne "NBC 33" 320/515

0134 Toledo, OH 11 (under KPLR), 24 (mixing w/KLNU), 36 (Grade B) 415/668

0153 WFFT 55 IN Fort Wayne "Fox 55" 320/515

0159 WPTA 21 IN Fort Wayne "21 Alive" 320/515

0207 WSJV 28 IN Elkhart/South Bend "Fox 28" 305/491

0209 WOAC 67 OH Canton/Akron 500/805

0250 WFWA 39 IN Fort Wayne 320/515

0303 CICO32 32 ON Windsor (briefly off WLKY) 455/732

0332 WXIX 19 KY Newport/Cincinnati, OH "Fox 19" 325/523

0339 WSTR 64 OH Cincinnati "WB 64" 320/515

0447 KYOU 15 IA Ottumwa/Kirksville, MO "Fox 15" 185/298

0452 WHO 13 IA Des Moines (briefly over jumble) 255/410

0500 WSJF 51 OH Newark/Columbus "Spirit 51" 435/700

0530 WCET 48 OH Cincinnati (CBTP) 320/515

0550 WTVW 7 IN Evansville "Fox 7" (briefly over jumble) 165/266

0602 WKMA 35 KY Madisonville 190/306

over the jumble on 13 briefly. WTVW-7 has become somewhat of a rarity in recent years, it was dominant in KHQA's null when it was an ABC affiliate. With the new stations, I'm now within striking distance of 300 stations.

73, Eric (N0UIH)

Fernando Garcia, San Salvador 415, Rincon de la Sierra, Cd Guadalupe, NL, 67181 MEXICO
fertrtvd@sdm.net.mx

Equipment: Sony KV-27EXR15, Screened CM 7'dish 85'RG11, UA900 amp. Sony KV-13TR27, CM 1110 30', CM 8 bay UHF array 60'. 1800' ASL, No re-logs in the same month, only tropo 500+ miles.

November 8 CST

0700 KTX 39 TX Dallas 518

This is the easiest catch from DFW area
KFWD 52 TX Fort Worth 522

in-out all day long

1500 KDTX 58 TX Dallas 518

1630 KPXD 68 TX Arlington 518

KHSX 49 TX Irving 518

1645 KTXA 21 TX Fort Worth 518

KDFI 27 TX Dallas 518

under KLDO-Laredo

Observing WX maps, there was a dry line N-S on west side of this opening, it was for sure contrasting with humid air from Gulf.

2200 WLAE 32 LA New Orleans 694

Dry line moves to TX coast line.

WGNO 26 LA New Orleans 694

WNOL 38 LA New Orleans 694

November 9

0515 KAMC 28 TX Lubbock 553

This is my DX alert from nw and w TX
0530 KCPN-LP 65 TX Amarillo 677

Shop at Home

KCIT 14 TX Amarillo 677

unit ch 36 San Angelo advs.

K36CC 36 TX Kress 611

KVII 7 ABC promos

0600 K53FR 53 TX Plainview PTCB 599

KBZO-LP 51 TX Woodrow Univision 558

0615 K36DV 36 TX Amarillo Telemundo 675

0645 Now turning dish for Gulf tropo, this was dead at 5 AM

WUPL 54 LA Slidell 705

WPMI 15 AL Mobile 838

WMAH 19 MS Biloxi 770

WEIQ 42 AL Mobile 825

0700 WXXV 25 MS Gulfport 764

1345 WFSG 56 FL Panama City 929

I came back home at this time for half an hour. I usually came back until 7 PM

WMPV 21 AL Mobile 842

WHBR 33 FL Pensacola 838

1400 WPXL 49 LA New Orleans 688

WPAN 53 FL Fort Walton B. 869

Western TV DX F. Garcia's report continues

under local			
KLPB	24 LA Lafayette	567	0530 KERA 13 TX Dallas
WJTC	44 FL Pensacola	842	DFW UHF blasting in
under KLUJ Harlingen			518
WSRE	23 FL Pensacola	857	0545 DFW-DTt 9 TX
under KVEO Brownsville			KXAS 5 TX Fort Worth
November 16			518
1900 KADN	15 LA Lafayette	586	KDFW 4 TX Dallas
2000 KLT	18 LA Lake Charles	548	518
KVHP	29 LA Lake Charles	530	0600 KTVT 11 TX Fort Worth
November 17			518
0130 KLAX	31 LA Alexandria	618	Additional days of November with 500+ miles and
0545 WVLA	33 LA Baton Rouge	633	furthest log:
November 18			10 DFW, TX 518
0200 KUVN-LP	31 TX Fort Worth	521	11 New Orleans, LA 690
0215 KXAS-DT141	TX Fort Worth		20 Lake Charles, LA 530
DT signal overriding KWEX San Antonio			21, 22 & 23 DFW, TX 518
0500 KMPX	29 TX Decatur	537	26 DFW, TX 518
0545 KLDL	55 TX Lake Dallas	544	27 Tulsa, OK 765
0700 KLPA	25 LA Alexandria	619	28 Mobile, AL 840
1900 KYPX	42 AR Little Rock	803	29 Panama City, FL 930
KASN	38 AR Pine Bluff	772	30 DFW, TX 518
KMSS	33 LA Shreveport	615	No 1000+ miles this November, as previous five years.
KVTH	26 AR Hot Springs	739	DFW area was logged for the last 15 days in a row of
1915 WPY	24 TN Memphis	904	the month. Several days KXTX-39 seemed to become
KETK	56 TX Jacksonville	532	a backscatter station.
KFKX	51 TX Longview	557	73's Fernando
1945 KLRT	16 AR Little Rock	782	
KTJV	48 AR Jonesboro	896	
VTN // KVTH-26			
2000 WFBI	50 TN Memphis	904	
KPOM	24 AR Fort Smith	783	
November 19			
0145 unid	ch 62 Shop at Home Lubbock hdn		
KPTB	16 TX Lubbock	555	
0330 KJTL	18 TX Wichita Falls	598	
0530 K19DK	19 TX Welch	519	
PTCB progr. o/u K19DF-San Angelo w/TBN			
K58	58 TX Cisco	463	
PTCB progr. o/KDTX, ID thanks to Jeff Kruzskas			
get info of the station via email from PTCB headquarters			
K47DK	OK Grandfield	598	
K66DB	66 TX Seminole	511	
multiple KTVJ FOX 34 promos.			
0600 KCBD	11 TX Lubbock	555	
KLKB	13 TX Lubbock	554	
KTXT	5 TX Lubbock	558	
unid bars, SAP w/NOAA WX			
0615 KPSG	43 OK Oklahoma City	706	
2100 WLPB	27 LA Baton Rouge	638	
2130 K69HD	69 LA Church Point	586	
K66FI	66 LA Opelousas	599	
November 24			
1945 KOPX	62 OK Oklahoma City	705	
KOKH	25 OK Oklahoma City	703	
KTBO	14 OK Oklahoma City	705	
November 25			
0400 KWMJ	53 OK Tulsa	766	
0415 KWHB	47 OK Tulsa	765	
KDAF	33 TX Dallas	518	

Western TV DX Wm. Eckberg's report cont'd

1630 KXNE 19NE	402	(predecessor to 8200) at 40 feet, combo U-V
KHNE 29NE	464	Winegard preamp. (Modest setup, am I supposed to
1900 KDSD 16SD	509	see all this stuff?) All tropo in this report!
2010 KSAX 42MN	404	
0440 WUNF 33NC	558	
0910 <u>W36AR</u> 36IN Lafayette	156	

Highlights for the month were two 600 mile tropo openings to the south in mid- and late November. The latter dates included 500 mile tropo into NE SD and MN in the early evening. Excellent DX targets were noted on all night with IDs and included Louisville 41, Hazard 57, and Asheville 33.

Incorrect information was in my two most recent reports. Most are recent changes that will be of interest to others and were brought to my attention by members. KDLT-5 Mitchell, SD traded calls with their satellite DDLV-46 in Sioux Falls. The latter is a regular here. K44CW Sioux Falls is not KBNW-LP. KSCB-53 (Siouxland Christian Broadcasting) in Sioux Falls is actually K53EG. A channel 51 in Sioux Falls is reported to have also used the call KSCB. I have a photo in the camera with the KSCB call on ch. 53 also. KNLJ-25 Jefferson City, MO has two translators on ch. 68 which are KNJE-LP in Eureka Springs, AR and K68EL in Marshfield, MO. The latter is 27.6 kW, not 942 Watts as I stated. The closest station is the one counted. Both translators are in exactly the same direction.

1998 will be the worst E skip season and best tropo season for me since I resumed TV DXing in 1983. Indeed, a strange combination! Total loggings through November include 250 stations. Eighty-three were skip and 167 were tropo. The latter includes all new and over 400 mile loggings as recorded in the past. Two tropo openings were over 800 miles. Both were recent.

The screened dish (cat whiskers) was lowered and repaired four times in 1998. Winds of over 70 MPH occurred as many times. I removed alternate cat whiskers to decrease wind load. The side lobes seem to have expanded with negative consequences. I considered 14 a clear channel, but can still count seven stations and a police broadcast while rotating my dish under normal conditions--an example of how crowded the TV bands are here.

Frank Merrill, P.O. Box 669, Macomb, IL 61455

Equipment: Icom R-7000 with video adaptor, fed into monitor; or, Zenith "1310" 13-inch color TV from

August 26, 1998 (note 1) EDT
 0300 K40FF 40 MO St. Louis Mt Vernon-13 128
WDLA 49 KY snowfree

2100 Alabama 54/48/42/40/33
WKMR 38 KY 418
 2206 WKLE 46 KY 469
 2249 WHBQ 13 TN 369
 2300 WOWL 15 AL 422
 2330 Atlanta 69 GA 575
 August 27, 1998

0026 WCBI 4 MS nearly atop KMOV-MO 496

0334 Chattanooga TN 45,61 475

0630 WTVC 9 TN 475

0635 Atlanta 36,69 GA 575

0700? WKAB 32 AL forgot to note time 608

0744 WТОK 11 MS nearly on top 569

1137 WMCF 45 AL 608

1224 WSBN 47 VA 497

1300 WCBI 4 MS 496

WABG 6 MS 480

1830 WBBJ 7 TN on top--rare 349

KFVS 12 MO total local quality 225

WHBQ 13 TN 369

1908 WMAV 18 MS 425

Tuscaloosa 33 AL snowfree

WSBN 47 VA (CCI only) 497

1925 WKNO 10 TN far atop, rare 369

2057 WFIQ 36 AL snowfire, first time so strong 422

2120 WPY 24 TN assumed, with ABC 369

Northern ALs blasting in, some Atlanta Us

WKMJ 68 KY nearly SF, VA CCI 303

WUAB 43 OH nearly atop WYZZ 460

W.VA. 59 WV CCI

2130 WPXX 50 TN new calls, constant ID 369

WCOV 20 AL probably, almost WICS 608

2130 WMAW 14 MS CCI 560

WTVC 9 TN 475

2158 WKYU 24 KY Note 2 329

2210 WKCH 43 TN snowfree 479

2230 WYXT 8 TN Note 3 479

August 28, 1998

0011 WCNC 36 NC not snowfree but strong 646

0029 WJZY 46 NC only 2nd time; useless

"UPN46" ID, strong 660

0106 WLFG 68 VA nearly snowfree 510

0114 WSL 10 VA CCI 617

0121 WSPAT 7 SC inconclusive, but

probable; "+" audio 611

0230 WCNC 36 NC only one left 646

August 29, 1998

0420 Blue Ridge powerhouses 19/39/59 CCI/68

Detroit U's & WXYZ-7 410

Toledo U's 381

Windsor 32, 54 410

WGKI 33 MI 376

WGKU 45 MI 443

Western TV DX *Frank Merrill's report cont'd*

W68CD 68 OH (Toledo TBN) 381
 0540 CIII22 22 ON 450
 0607 W44_ 44 MI TBN "z" offset, toward Ann Arbor, any ideas, not toward Meadville, PA
Ed: WDWO-LP Detroit is licensed, W44AZ, Ann Arbor has a CP, but both are supposed to be - offset.

September 4, 1998 (see notes 1,4)

2317 KSNB 4 NE 391
September 5, 1998
 0010 KFPX 39 IA has "constant" ID 151
 KABY 9 SD 526
 KHAS 5 NE supremely rare-watchable 405
 0420 K56FC 56 NE Grand Island billboard 404
 KGIN 11 NE atop KDIN-IA all morning 404
 0759 KPLO 6 SD 521
 0959 KTTM 12 SD 471
 1110 KWCM 10 MN nearly atop 426
September 6, 1998 to
 0220 WUPW 36 OH 389
 KELO 11 SD 369
 KRWG 43 MN 362
 KTWW 11 KS earlier 284
 0235 KMSP 9 MN over KCRG 339
 North IN LPTVs 67,69
 0248 W19_ 19 OH Defiance billboard snowfree 334
Ed: WDFM-LP

0313 Northern WIs 14,32
 0435 CBEFT 54 ON stronger than WTVS-56 410
 0516 KABY 9 SD 526
 0554 WQHS 61 OH 470
 0558 W63AH 63 OH Maplewood WPTD-16 347
 First time in 12 years

0640 WUAB 43 OH nearly over WYZZ 460

September 7, 1998

0330 unID 61 St. Louis? see note 5
 WWAZ 19 KY snowfree 275

September 10, 1998
 2010 Wausau WI 7, 9, 20 strong
 WGKI 33 MI 376
 WGKU 45 MI 443

September 11, 1998
 0200 Boffo Tr on FM, very little on TV
 0515 WLEF 36 WI 379
 0735 KSAX 42 MN snowfree 444
 KRWG 43 MN 362
 North MI 9/29/33/45

2110 Blue Ridge Biggies 47(CCI)/59(CCI)/68

September 26, 1998

0000 WTCI 45 TN 475
 WMCF 45 AL 608
 0000 N. Alabama 31,54, etc.
 Tulsa 53 OK
 KHOG 29 AR "then it all died"

October 10, 1998

0000 etc. East TX 45/51/57
 MN 29/45 strong
 WJFW 12 WI 364
 2200 WRCB 3 TN 475
 -2300 WDBJ 7 VA 617
 Blue Ridge stuff 47/59/68

CBLFT	61	ON	563
WNEO	45	OH	502
WUPW	36	OH	389
KVBM	45	MN	339
2321 WQLN	54	PA	562
CFMT	69	ON	510
2358 CITY	57	ON	620
<u>October 11, 1998</u>			
0055 WOAC	67	OH	488
WWAX	53	OH	415
0105 CFMT	47	ON	620
0328 CBLFT	44	ON full CB, distinctive "warble" tone, a very most wanted	684
CICA	19	ON	620
0348 WJET	24	PA first time in 8-10 yrs?	562
0349 KPOM	24	AR	405
Houston	TX	weak 14,20,45,67	800
KTBO	14	OK	510
Dallas	21	TX	630
0421 KXAN	36	TX	810
0446 London	40	ON	510
0500 KVNA	54	TX	810
KXAM	14	TX	807
0520 KTBU	55	TX 3/4 CB "KTBU Conroe"	750
0400? C	36	ON forgot to mark down	589
0544 WLEF	36	WI	379
2100 Cleveland/Detroit U's			
WXYZ	7	MI	410
2220 WLFG	68	VA this sure gets out	510
WGKU	45	MI	443
<u>October 12, 1998</u>			
0101 WJRT	12	MI	401
WOAC	67	OH	488
WAQP	49	MI	401
London	45	ON	510

Notes:

1. Nights of 26/27 August and 04/05 Sept. I probably missed many potential loggings (including needed Ozark AL-34), but these two overnights "kicked a" on FM, and I spent most of my effort FM DXing.
2. 2158/27 August Apparently, unknown to me, sometime earlier this summer, Lead Mountain Technologies INC. moved the lead mountain (which formerly blocked this) to NC, to block WLXI-61 on August 22. After years of never even a trace of this, and with WQPT's recent major ERP increase, I thought this was a goner! Seen with "Class of 2000" slate, and "KYU" also on it, "24" offset (zero to WQPT, several "big bars" CCI).
3. 2230/27 August It was raining by 2200, and overnight, but the opening didn't die as usual. No actual ID on this, but way atop at the time, CBS, "z" offset, correct direction. Nothing else even remotely fits-certainly not WROC! (WJW-OH is now Fox.)
4. 4 September Of course there was tropo on this date! It seems like there is always tropo on September 4. Usually I'm at a National Radio Club convention, thus missing it.

Western TV DX *Fr. Merrill's report concludes*

5.7 September "They're ba-a-a-a-ack!" Again, some kinda translator going on and off with TBN-presumably as WWTO-35 fades in and out of local strength at St. Louis or wherever this thing is. I didn't stick around to see WWTO ID, but we've seen it here before, as long as 7 or 8 years ago. By far the strangest and most mysterious recurring reception for either of us here.

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 zzpomer@ktwv.wuacc.edu

March 29, 1998 tropo

0630	33-39-52-58-68	Dallas
	25-44	Waco, TX
0700	K33EK	33*OK Sand Springs
	KTPX	44 OK Okmulgee
	K66EK	66 OK Bartlesville
	KNCT	46 TX Belton
	K61GC	61 KS Wichita
	KTVG	17 NE Grand Island

May 5, 1998 tropo

2155	unID	25	"Fox 25"
2200	unID	54	"Praise TV"
	KSBI	52 OK Oklahoma City	
<u>May 19, 1998</u> tropo			
2230	KOPX	62*OK Oklahoma City	255
	unID	46 looked like KCLJ maybe KDLT?	
	KRSC	35 OK Claremore	

June 14, 1998 Es

1830	WSAV	3 GA Savannah	936
	WCBD	2 SC Charleston	
1900	WEDU	3 FL Tampa	1088
<u>June 27, 1998</u> tropo			
0130	WICS	20 WRSP-55 Springfield, IL	335
	25-34-43	Oklahoma City, OK	
	27-49-58	Dallas, TX	
	K53??	53*MO Joplin	

June 28, 1998 Es

2215	KYW	3 PA Philadelphia	1086
	WTKR-3	Norfolk, VA	1054
<u>June 30, 1998</u> tropo			
0730	19-31-25-47	Peoria, IL	

0730	WICS	20 IL Springfield	
	K60CL	60 IA Keokuk	
<u>August 8, 1998</u> tropo			
2305	WRSP	55 IL Springfield	

2330	WLKY	32 KY Louisville	530
	WGTE	30 OH Toledo	667
	WFWA	39 IN Ft. Wayne	570
	WHMB	40 IN Indianapolis	507
	WTLW	44*OH Lima	619
	WTVP	47 IL Peoria	

August 21, 1998 tropo

0315	WCCU	27*IL Urbana	420
0615	K61CG	61 KS Wichita "very strong"	
2200	WSTR	64 OH Cincinnati	596
	20-40-59	Indianapolis, IN	507

WICS	20	WRSP-55 Springfield, IL
WCVN	54*	KY Newport
WAND	17	IL Decatur
WKEF	22	OH Dayton
WTIU	30	IN Bloomington
WWAT	53*	OH Chillicothe "UPN 53" 670
unID	51	OH Newark?

August 22, 1998 tropo

0410	WXIX	19 KY Newport, KY (Cincinnati)	594
	WIIB	63 IN Bloomington	509
0500	WTWO	2* IN Terre Haute	442
	WFYI	20 IN Indianapolis	507
	KDIN	11 WHO-13 Des Moines, IA	
	KSIN	27 IA Sioux City	244
0830	WICS	20 IL Springfield	
	WEEK	25 IL Peoria	
1230		40,45,59 still in	
2130	WSJV	28 IN Elkhart	
		32-44-66 Chicago, IL	
	WHME	46 IN South Bend	530
	KYOU	15 IA Ottumwa	246
	WSEE	35 IL LaSalle	

Sorry I've been so slow getting these off to you. I have some more and will try to get them to you before too long.

After 25 years I forgot how much time a small child takes up. I missed a lot of DX time when we were off to Romania to pick up Josie. After two weeks in Europe we spent some time with her in Nova Scotia and Newfoundland. We were in St. Pierre et Miquelon for three days. They use the European system, but the bed and breakfast only had cable. There were antennas pointed to Canada so I guess some folks had NTSC sets or ones that could tune both systems.

KTWU-11 is now on 24 hours so channel 11 is now off limits for DX purposes.

Dave

Victor Frank, K6FV, 12450 Skyline Blvd. Woodside, CA 94062-4558

Equipment: 5' screened dish @ 25', 1765' AMSL. HD-73 rotor, Radio Shack preamp, Icom R-7100, TV-R7000 TV adapter.

The two stations below are new TV station IDs for me. K34DF is listed with 37.6 kW, K16CX with 12 kW. KMSG-59, listed last month was a dup. so 68-1+2=69 TV stations ID'd this summer/fall, none of which is DX or outside of Northern California.

November 1998 Call Letter Keyer ID UTC km
 23 0254 K16CX 16 CA Grass Valley 483,251 215
 25 0637 K34DF 34 CA Redding 591,245 355

Thanks to Dennis Smith, who wrote that he observed portable in late March 96 K16CX from Sierra College near Rocklin with xmtr on Wolf Mtn. with religious programs, community calendar & KXPR-FM audio.

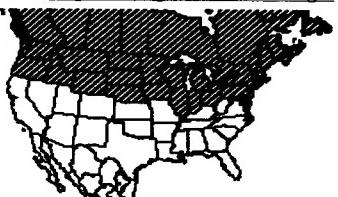
NORTHERN FM DX

JANUARY 1999

DEADLINE: The 5th of the month before publication
LOG CUTOFF: 4 months from postmark

COLUMN REPORTING AREA: See map to the right
 (also includes Europe & Asia)

EDITOR: GREG CONIGLIO
 90 SLATE CREEK DRIVE APT. #3
 CHEEKTOWAGA, NEW YORK 14227
E-MAIL: coniglio@localnet.com
WEB: <http://www.geocities.com/~wgrc>



HAPPY NEW YEAR!!

FRANK MERRILL - P.O. BOX 669 - MACOMB, ILLINOIS 61455

Equipment: Tandberg 3001-A tuner (with McIntosh MR-78 kept as "standby"). CM Stereo Probe 9 (4408) yagis at 45 ft. Andy Boein phase box (better signal meter on Tandberg is better for phasing)

* impossible without phasing!

AUGUST 1998 TR

26 TR

2116 **WKUL** 92.1 AL Cullman, NOTE 1 481

2206 **WITZ** 104.7 IL Jasper, thru 7-mile WLMD *

2230 **WFOX** 97.1 GA Gainesville, not heard in years * 567

2247 **WAMZ** 97.5 KY Louisville, "rare" city, period, WHY??? * 303

2249 **WXBQ** 96.9 TN Bristol, calls * 530

2305 **WBHJ** 95.7 AL Tuscaloosa, legal ID 427

2324 **WGGC** 95.1 KY Glasgow * 350

2330 **WKWZ** 106.1 MO Charleston 254

2341 **WBVN** 104.5 IL Carriers Mills, taking out WFMB without any phasing! 220

27 TR

0030 **WTXT** 98.1 AL Russellville "Tuscaloosa's country music station, 98.1 WTXT" 441

0050 **WAFM** 95.3 MS Amory, NOTE 2 * 463

0122 **WBLET** 100.5 MS Batesville, "country 101", logged anyway later * 426

0158 **WYMX** 99.1 MS Greenwood, "Max 99 WYMX Greenwood" * 480

0228 **KOKR** 96.7 AR Newport *, NOTE 3 336

0229 **WCNA** 95.9 MS Potts Camp, "Country 95 WCNA between songs" * 420

0308 **WWEZ** 97.5 TN Trenton *, EZ 97.5 323

0405 **WSTR** 94.1 GA Smyrna, walkathon for metro Atlanta and "Star 94" slogan * 566

0407 **WZBQ** 94.1 AL Carrollton *, today's best music 94.1 ZBQ" later noted atop, without phasing, burying WMIX in the same dir 516

0424 **WWOG** 90.9 TN Cookeville * 407

0453 **WZLQ** 98.5 MS Tupelo, "Kicks 99 is WZLQ & WELO Tupelo" 440

0506 **WLSM** 107.1 MS Louisville, calls, "playing the widest variety of k around, on WLSM",NOTE 4 *

0524 **WNKX** 96.7 TN Centerville, "Country Kicks 96.7 is WNKX", country" 366

0559 **WQPR** 88.7 AL Muscle Shoals, generic AL Public Radio ID, took out needed WAYM * 427

0620 **WJSP** 88.1 GA Warm Springs *, Peachtree Public R., trying for WMAW 618

0632 **WQQK** 92.1 TN Hendersonville, "92Q", downtown Nashville ad, mid-Tenn. Mentions in promo, etc. a major "wanted" logging! 361

0648 **WBLG** 107.1 KY Smiths Grove * 336

0649 **WACR** 103.9 MS Columbus, urban/soul,

"103.9 WACR Tupelo & Tuscaloosa's song station", WACR van, etc. 496

0720 **WHMA** 100.5 AL Anniston, "The most music, hot country Alabama 100" softball "up in Fort Payne", glad to log before it goes to GA! * 539

0726 **WBLE** 100.5 MS Batesville, "taking us up to Miss. Headline news on this Thursday, at County 101 'BLE'" * 426

0750 **WUSY** 100.7 TN Cleveland, wanted WDMS

0821 **WRJB** 98.3 TN Camden, Super 98, rare 333

0834 **WTNV** 104.1 TN Jackson, blasting through Illinois' stations without phasing 349

0858 **WVAS** 90.7 AL Montgomery 608

0925 **WAYM** 88.7 TN Columbia *, "Way FM", traffic reports with I-65, Nashville, etc., contemp g 388

0943 **WDJC** 93.7 AL Birmingham *, local ads, calls, and contemp. G 524

0946 **WYSF** 94.5 AL Birmingham, "Soft Rock 94.5", without phasing 524

1028 **WBDC** 100.9 IN Huntingburg, last logged in the late 1980's * 248

1053 **WUAL** 91.5 AL Tuscaloosa, Alabama Public

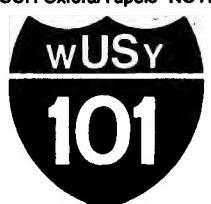
Radio with KSLH-MO obliterated 427

1107 **WTUG** 92.9 AL Tuscaloosa, calls 427

1137 **WBHK** 98.7 AL Warrior, Birmingham

calendar "98.7 Kiss FM", local ads, etc. * 505

1201 **WWMS** 97.5 MS Oxford, "Miss 98 is WWMS and WSUH Oxford/Tupelo" NOTE 5 425



NORTHERN FM DX

JANUARY 1999

Frank Merrill's report continues:

SEPT 4, cont

0555 **KOGA** 99.7 NE Ogallala 580

KELN 97.1 NE North Platte 530

0635 **KVHT** 106.3 SD Vermillion 362

0638 **WMUS** 106.9 MI Muskegon *, while pointed towards Nebraska! 295

0645 **WCXT** 105.3 MI Hart 315

0659 **WLCS** 98.3 MI Muskegon Hts, "WLCS

N.Muskegon", old CKLW type jingle, followed by 20-20 News instrumental stiner, cool!, if you remember Detroit 60's radio 297

0723 **KPHR** 104.3 SD Milbank, while pointed at Muskegon! 447

0733 **KJAM** 103.1 SD Madison, *, Weather with many SD mentions, Madison temp, calls 411

0759 **KTSD** 91.1 SD Reliance, "Public radio for central SD, this is KTSD Reliance at 91.1" 521

0759 **KDOM** 94.3 MN Windom, * 328

0807 **KLQP** 92.1 MN Madison, no phasing! 422

0816 **KWYR** 93.7 SD Winner, Winner, Fort Pierre, Gregory, etc. ads 513

0824 **KBRB** 92.7 NE Ainsworth, PSA Brown

County Clinic in Ainsworth, calls, Paul Harvey at 7:30, no phasing, trying for KLGA-IA! 498

0838 **KMIT** 105.9 SD Mitchell 439

0846 **KQRN** 107.3 SD Mitchell, , "SD's best rock and roll 107.3 The Rock" * 439

0852 **KDDG** 105.5 MN Albany, *, "It's 65 in St.Cloud, 67 in Albany", fading into: 409

0852 **KMGM** 105.5 MN Montevideo, calls, promo, after hearing local ads 403

0906 **KILR** 95.9 IA Estherville, local ads, then wham! – KIK-KCOB mix took over! 296

0911 **KBRK** 93.7 SD Brookings, local contest winner, "B 93.7", SD Special Olympics, ads 412

0928 **KVCX** 101.5 SD Gregory, "This is VCY America", legal ID, no phasing! 491

0931 **KTCH** 104.9 NE Wayne, Wayne ad, "games broadcast on KTCH", FB summaries 352

0953 **KUTT** 99.5 NE Fairbury, *, no luck yet with KOLY-SD 344

0959 **KRNU** 90.9 NE Lincoln, *, rare 317

KPLO 94.5 SD Reliance, 521

1016 **KKSR** 96.7 MN Sartell 399

1023 ??? 99.3 IL? WGCA 88.5 noted here again! PIRATE?? From due NW, somewhat north of a KFGQ heading 6 TR

0326 **KIXX** 96.1 SD Watertown 449

KESD 88.3 SD Brookings 412

KWOA 95.1 MN Worthington 335

0353 **KYBA** 105.3 MN Stewartville 252

KJOE 106.1 MN Slayton, KLSS-IA does not get out well 357

0420 **KFSI** 92.9 MN Rochester, rare 264

0458 **KARP** 96.3 MN Glencoe 360

0529 **KTIS** 98.5 MN Minneapolis, legal ID 339

0532 **KJLY** 104.5 MN Blue Earth, topping KDAT without any phasing 282

10 TR

2024 **WKJF** 92.9 MI Cadillac, "WTCM" calls, simulcasting 103.5? (yes-grc) 376

2203 **WCMW** 103.9 MI Harbor Springs 448

Frank Merrill's report continues:

SEPTEMBER 11, 1998 TR
 0154 WSHZ 107.9 MI Muskegon Hts, no phasing, took out Aurora IL, "let Z-108 WSHZ work for you", in station promo 297
 0210 WKLA 106.3 MI Ludington 324
 WRYO 94.5 WI Eagle River 384
 0212 WHDG 97.5 WI Rhinelander 364
 0219 WKQZ 93.3 MI Midland, * 396
 0229 WXYQT 101.5 MI Mainstee, oldies, but faded out, rats! * 344
 0245 WBDK 96.7 WI Algoma 330
 WUGN 99.7 MI Midland 396
 0319 KFIZ 107.1 WI Fond du Lac "K107" and "K 107.1" 257
 0524 WKJF 92.9 MI Cadillac, still there 376
 WHSR 107.7 MI Alpena 486
 WKHQ 105.9 MI Charlevoix 433
 0557 WOWN 99.3 WI Shawano, legal ID 317
 0601 WHNN 96.1 MI Bay City, * 411
 0659 WSFQ 96.3 WI Peshtigo, * 351
 0707 WWIB 103.7 WI Ladysmith 348
 0719 WJDK 95.7 IL Seneca, "new music from Celine Dion on 'JDK'" 123
 2121 WRIF 101.1 MI Detroit 410
OCTOBER 1998 DX
11 TR
 0025 KWSJ 105.3 KS Haysville 410

OCTOBER 12
 0130 WRIF 101.1 MI Detroit 410
 0156 WGPR 107.5 MI Detroit, *, county judge & political ad ment. Detroit, WGCI phased, but WZZQ a problem. 410
 0204 WDRQ 93.1 MI Detroit * 410
 0223 WKQI 95.5 MI Detroit * promo for Q 95-5 Motor City Weather" jingle, local temps 410
 0301 WJOT 105.9 IN Wabash *, persistently blocked WCHB for me 255
 Detroit's New Music

**NOVEMBER 1998 DX****14 TR (MOBILE DX) NOTE 9**

1459 WWHP 98.3 IL Farmer City, noted off air
 1459 W252AI 98.3 IL Decatur, 30 separate translator ID, a minute before the WEJT 105.1 ID. Why is this assigned so close to WWHP anyway?
 1500 WHOOW 95.9 IL Clinton, definitely off the air, weak oldies noted (assumed WKKD)

NOTE 1 (Aug. 26, 2116): Ad for simple cleaners in Eastport Shopping Center, during Atlanta Braves break. No call letters heard; this was a guess! Nearest of three possibles I phoned them just after; guy on the board (Nick Grant) told me that I had indeed heard an ad for SIMCOE cleaners, as stated. I may have missed other DX, because he kept me on the phone for a half hour, asking questions about DX, etc. Maybe a good candidate for a sample bulletin? NEW CLASS A TR STATE. (nice! - grc) No phasing needed (!) over 30-mile WNKK.

NOTE 2 (Aug. 27, 0050): String of six ads, all for Amory, mentioning Route 25, 41, and 278 (all on map). Pretty conclusive; no calls heard; WRXX phased. NEW CLASS A TR STATE. (nice again! - grc). Lost to another station, probably WMSK-KY, which gets out well.

NOTE 3 (Aug. 27, 0228): "We're the home of NE Arkansas' best country, B 96.7" (huh? Slogan doesn't fit!) Legal ID heard much later, at 1159.

NOTE 4 (Aug. 27, 0506): No phasing! WEAI Lynnville still not all night after all these years, so only WKRV Vandalia needed to be taken out.

NOTE 5 (Aug. 27, 1201): No phasing here, either! In fact, I was trying to phase THEM when they IDed I assumed this to be semi-local WBBA-IL!

NOTE 6 (Aug. 27, 1933): Heard at 1925 at "The Jazz Lover U-92 FM", assumed it to be them. I called, asking if the could give a legal ID after the next song, and he did! "WUMR Memphis"

NOTE 7 (September 4): Of course! Don't tropes ALWAYS happen on this date?!?

NOTE 8 (Sept. 4, 2213): I doubt this station was on! With listed 100 kW, they should have blasted WNKK even without phasing. Phasing gave me only a weak KUEL Fort Dodge IA, in lieu of the usual KRLS.

NOTE 9 (September 14): These heard on a car radio, on Interstate 74, near Farmer City, Illinois.

NORTHERN FM DX**JANUARY 1999****HARRY J. HAYES - 9 HENRY STREET - WILKES-BARRE, PENNSYLVANIA**

Equipment: GE Superradio w/110 kHz filter, 10 element Jerrold antenna in attic, RS amp. RS attenuator for overload. New Underlined



I have never heard MS activity as intense in my DXing career as I heard it the morning of November 17! I was expecting another disappointing session. I laid in bed about 2330 (the receiver is a short distance away from where I sleep) while being lulled into a half sleep by the "white noise". I was blasted fully awake at 0012 when an UNID 91.7 came in for about a minute and a half burst. Within about 15 minutes the band was "on fire" w/almost E-skip like conditions. I donned my robe and camped out on 104.7 for the next three hours. It was hard to turn the radio off at 0300 but I had to work the next day. I hope this happens next year! The following morning, November 18 turned out to be a dud. Obviously the shower was over.

CHARLES BERNTH - P.O. BOX 236 - EASTPORT, NEW YORK

Equipment: Adcom GTP-400 tuner, RS antenna
 Internet: cbernth@banet.net

Meteor scatter results were pretty meager. However did log following, all on 92.9 11/16 Dillon, SC "...Eagle 92.9..." unid "...Z-93..." Hannibal, MO "...KGRC..." 11/17 Ocala, FL "...Q 92.9..." 11/18 Tuscaloosa, AL "...WTUG..." unid classical music--probably WSCD Duluth, MN

Best regards
 Charles Bernth, Eastport, NY

**WORLDWIDE TV-FM DX ASSOCIATION**

Serving the VHF-UHF Enthusiast

THE VHF-UHF DIGEST IS THE OFFICIAL PUBLICATION OF THE WORLDWIDE TV-FM DX ASSOCIATION, DEDICATED TO THE OBSERVATION AND STUDY OF THE PROPAGATION OF LONG DISTANCE TELEVISION AND FM BROADCASTING SIGNALS AT VHF AND UHF. WFTDA IS GOVERNED BY A BOARD OF DIRECTORS: TOM BRYANT, GREG CONIGLIO, BRUCE HALL, DAVE JANOWIAK, AND BILL THOMPSON.

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<i>Original Cover Design:</i> Harry Hayes		

**FROM THE STAFF
TAKES A HOLIDAY BREAK**

HAPPY NEW YEAR!

In June, 1945, the FCC ordered all FM radio be transferred from its 50 megacycle band to a new band of frequencies between 88 and 108 megacycles.

From that point on the qualities of FM, noise-suppression and the ability to carry the full frequency range of sound perceptible to the human ear has attracted a growing band of discriminating listeners and dedicated FM broadcasters. Finally, in 1961, the FCC authorized the use of a split-band system of stereophonic broadcasting over FM channels, a technique whose underlying feasibility Armstrong had demonstrated in an historic multiplexing experiment as early as 1934.

Hundreds of millions of radio sets equipped with FM are now in use in the U.S. The number of FM stations on the air now reaches 5000. FM has truly become the dominate radio/TV communications system in this country and should remain so through the rest of the century.

CHOOSING AN ANTENNA FOR FM

Before purchasing an FM antenna you must decide what type you really need. Define the problems you need to overcome and consider your location. The key to good FM/stereo reception is to get the maximum direct signal from the transmitter and minimum amount of reflected signal.

If you live in a metropolitan area or are located close to an FM transmitter, an antenna with sharp directivity is needed rather than a high-gain antenna. A good FM antenna should reject unwanted signals coming from a different direction or bouncing off obstructions. Good rejection depends on the antenna's front-to-back ratio and beam width. Front-to-back ratio is the antenna's sensitivity to signals coming at its rear. The higher the ratio, the better rejection of unwanted signals coming from behind. The beam width indicates the angle at the front of the antenna within which it can best receive the FM signal. A narrow beam width makes it difficult for unwanted signals to be received from the side.

From 2 to about 25 miles out is what is referred to as the "prime" FM reception area. Here, multipath distortion is less of a problem, and a medium gain antenna with a moderate beam width should be perfect. However, if you wish to receive FM stations in different directions you'd probably want a directional antenna with rotator.

From 20 to 40 miles out is the normal reception area, and an antenna with good gain is needed. Again, depending on the location of the FM transmitters, you may want a directional FM antenna with rotator.

If you are located more than 40 miles out you are in the "fringe" area. You'll need a "hot antenna," that is, one with high gain. If stations come in at the same or adjacent channels the antenna must be directional. Again, a rotator may be required. If the antenna alone doesn't provide enough gain, the use of a Winegard amplifier may be helpful.

VHF/FM AND VHF/UHF/FM ANTENNAS

Broadband television/FM antennas (broadband meaning more than one band of frequencies) are basically a compromise for FM but can be sufficient for local FM/ stereo reception. A broadband antenna has only about one-half the gain of a simple FM antenna. This difference would not be important in a prime reception area, but is highly significant if you're trying to receive long-distance FM signals. For best possible FM, we recommend you install a separate FM antenna.

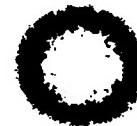
BUILT-IN FM ANTENNA

The FM antenna built-in to your FM receiver can give you clear reception providing you are located in a strong signal area and there's an unobstructed signal path from the transmitter. But, it will not receive FM signals from a remote FM transmitter very well, nor will it reject multi-path reflections. If you own a high-quality FM tuner or receiver and want the best quality FM/ stereo sound, you need an external FM antenna.

USING A ROTATOR

For the discriminating FM buff who wishes to receive FM stations from different directions the use of a rotator is a "must." A highly directional, high gain antenna and rotor should be able to pull in 90% of all FM stations within 200 miles (depending on receiving antenna height and transmitting antenna height.)

The Millennium Sun-Spot Bug



Think that you have enough problems in coping with the Millennium Bug and your Y2K Conversion efforts? Well - Mother Nature also has a surprise in store come the Year 2000.

Sunspots. Solar Storms. Huge amounts of electro-magnetic radiation.

Every 11 years the sun goes through its sunspot cycle. However - this cycle - which is just now getting started and will peak in March of the Year 2000 - *will be one of the most intense ever, according to forecasters.*

What does this mean for you and me? Well - think of it this way. Many of the communication satellites, cellular networks, interconnected power grids, etc. were put into service at the nadir of the last solar cycle - so interference was at a minimum. The effects of radiation of these systems went largely unnoticed, because of the lack of intense radiation as well as the lack of systems to be damaged.

That is different today. As reported by **George Siscoe, Boston Astronomy Professor:** "*Since electrically enabled technology is getting more and more pervasive, the impact of it is going to be more noticeable.*"

How noticeable?

Well - count on poor TV reception for one thing. Satellites that beam the signals to and from the earth may be fried by the radiation - leaving holes in the service. *What is true for TV is also true for long distance telephone calls - and the Internet* - or any communication sent via satellite. If the communication electronics fail in space - communications also suffer back here on earth.

Cellular communications will also suffer - and not just due to satellite outages. As the sun cranks up its energy output, the solar flares will be releasing that energy to the earth. That energy will be caught in our ionosphere, making that portion of the atmosphere much more electrically charged. Radio waves that would normally pass through the ionosphere will now be bent - or skipped - back towards the earth - causing interference with other transmissions. Cellular relay stations will have to contend with this phenomenon, as well as the corresponding crackling and hissing as the radiation peaks.

So... to put it in a nutshell, it seems that mother nature and technology will be butting heads. It promises to be an interesting match.

However - there is a bright side to all this. Ham radio operators will be working the skip with very good results. The 10 meter band will be wide open for long distance communications. The Aurora Borealis will be putting on shows big time. And with poor TV reception, reading books might just be the rage in the upcoming years. (But not on the beach. You see - with the ozone layer being depleted - all that extra radiation has to go somewhere. Hint: Buy some stock in sun tan lotion companies. Or aloe vera farms.)



(SKIP: Skip is the phenomenon that occurs when the ionosphere becomes electrically charged with solar radiation. When the sun-spot cycle is at its high point or apogee, there is more radiation hitting that atmospheric layer, hence more electrically charged ions. Those ions act as a shield to radio waves - bending them back towards the earth, instead of letting them pass into the great void of space. Thus - as an example - when a Ham radio operator sends a 10 meter signal, those waves which would normally pass right through the atmosphere are bent back towards the earth, enabling a receiving station - many thousands of miles away - to capture the transmission. CB users will also experience the same phenomenon. Generally, the lower the frequency of the radio transmission the more noticeable.)